HITACHI Inspire the Next

SERVICE MANUAL



DW3-6 CHASSIS PA

No. 0227

L47S601 / DW3G L47V651 / DW3G

R/C: CLU-4373A R/C: CLU-4374A p/n HL02403 p/n HL02404 L47S601 L47V701

TO GO TO A CHAPTER, CLICK ON ITS HEADING BELOW

CONTENTS

| IMPORTANT SAFETY PRECAUTIONS | |
|--------------------------------|----|
| PRODUCT SAFETY NOTICE | 3 |
| SERVICING PRECAUTIONS | 4 |
| AGENCY REGULATORY INFORMATION | 9 |
| ACKNOWLEDGMENTS AND TRADEMARKS | 10 |
| INTRODUCTION | |
| SPECIFICATIONS | |
| BASIC SETUP & OPERATION | |
| ADJUSTMENTS | 32 |
| TROUBLESHOOTING FLOWCHARTS | |
| BLOCK DIAGRAMS | |
| CONNECTOR DIAGRAMS | |
| FINAL WIRING DIAGRAM | 44 |
| QUICK DISASSEMBLY GUIDE | 46 |
| FINAL ASSEMBLY GUIDE | |
| WAVEFORMS | |
| DC VOLTAGES | |
| CIRCUIT SCHEMATIC DIAGRAMS | |
| PRINTED CIRCUIT BOARDS | |
| PARTS LIST | 82 |
| QUICK REFERENCE PARTS LIST | 88 |

CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of Electric shock do not perform any servicing other than that contained in the operating instructions Unless you are qualified to do so. Before servicing this chassis, it is important that the service Technician read the "IMPORTANT SAFETY INSTRUCTIONS" in this service manual.

SAFETY NOTICE USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a extstyle extst

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

Version 0228-3 Updated 02-14-08 LIQUID CRISTAL DISPLAY PANEL

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety-related notes located on or inside the cover case and on the chassis or LCD module

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged-in service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

- When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
- When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, insulating cover-shields, and isolation resistors, capacitors, etc.
- 3. When service is required, observe the original lead dress.
- 4. Always use manufacturer's replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer's. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of over heating.
- 5. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

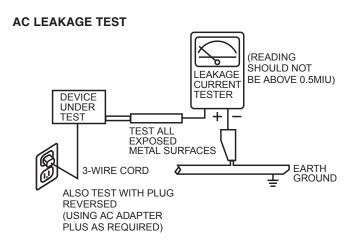
Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground.

Using an insulation tester (DC500V), connect one of its leads to the AC plug jumper and touch with the other lead each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a resistor reading over $4 \text{M}\Omega.$ Any resistance value below this range indicates an abnormality which requires corrective action. An exposed metal part not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with the American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances. In the case of the LCD, set the AC cable first in the plugged position and then in the unplugged position, measure from across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground, to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 MIU. Reverse the instrument power cord plug in the outlet and repeat test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

NOTE:

Do not work before the LCD TV set is unplugged from the power line. This set does not have a Main Power Switch.



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified with a \(\Delta \) mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHIrecommended replacement component, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manuals may be obtained at a nominal charge from HITACHI Sales Corporation.

L47S601 and L47V651 - LCD TV

- Follow the general caution recommendations from "Safety precautions" section.
- If necessary to replace Panel module, this work must be started after the panel module and the AC/DC Power supply becomes sufficiently cool.
- 3. Special care must be taken with the display area to avoid damaging its surface.
- 4. The Panel Module shall not be touched with bare hands to protect its surface from stains.
- It is recommended to use clean soft gloves during the replacing work of the Panel module in order to protect, not only the display area of the panel module but also the serviceman.
- 6. Signal, power supply P.W.B.'s and LCD driving circuits P.W.B.'s are assembled on the rear side of the LCD module, take special care with this fragile circuitry; particularly, Flexible Printed Circuits bonded to surrounding edges of the panel. They are not strong enough to withstand harsh outer mechanical forces. Avoid touching the flexible printed circuits by not only your hands, but also tools, chassis, or any other object. Extreme bending of the connectors must be avoided too. In case the flexible printed circuits are damaged, the corresponding addressed portions of the screen will not be lit and exchange of the panel will be required.

SAFETY NOTICE USE ISOLATION TRANSFORMER WHEN SERVICING

POWER SOURCE

This LCD television is designed to operate on 120 Volts/60Hz,, AC house current. Insert the power cord into a 120 Volts/60Hz outlet.

NEVER CONNECT THE LCD TV TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT AND TO 50HZ. TO PREVENT ELECTRIC SHOCK,DO NOT USE THE LCD TELEVISION'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR THE OUTLETS UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the "Important Safety Instructions" on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

- Always unplug the instrument AC power cord from the AC power source before:
 - Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
 - b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

- Do not spray chemicals on or near this instrument or any of its assemblies.
- Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).

CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

- Do not defeat any plug/socket of voltage interlocks with which instruments covered by this service data might be equipped.
- Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heatsinks are correctly installed.
- Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
- Use with this instrument only the test fixtures specified in this service data.

CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded-tip soldering iron to solder or desolder ES devices.
- Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
- Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

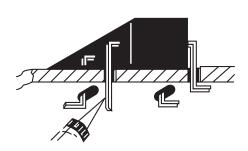
- Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
- Use an appropriate lead free solder (see page 8). Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.
- 3. Keep the soldering iron tip clean and well-tinned.
- 4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
- 5. Use the following desoldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an antistatic, suction-type solder removal device or with solder braid.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- 6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

- Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
- Draw away the melted solder with an anti-static suctiontype solder removal device (or with solder braid) before removing the IC.

Replacement

- 1. Carefully insert the replacement IC in the circuit board.
- Carefully bend each IC lead against the circuit foil pad and solder it.
- 3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

"Small-signal" Discrete Transistor Removal/Replacement

- Remove the defective transistor by clipping its leads as close as possible to the component body.
- Bend into a "U" shape the end of each of the three leads remaining on the circuit board.
- 3. Bend into a "U" shape the replacement transistor leads.
- 4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

- Heat and remove all solder from around the transistor leads.
- 2. Remove the heatsink mounting screw (if so equipped).
- 3. Carefully remove the transistor from the circuit board.
- 4. Insert new transistor in circuit board.
- 5. Solder each transistor lead, and clip off excess lead.
- 6. Replace heatsink.

Diode Removal/Replacement

- Remove defective diode by clipping its leads as close as possible to diode body.
- Bend the two remaining leads perpendicularly to the circuit board.
- Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
- 4. Securely crimp each connection and solder it.
- 5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

- Clip each fuse or resistor lead at top of circuit board hollow stake.
- 2. Securely crimp leads of replacement component around stake 1/8 inch from top.
- 3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

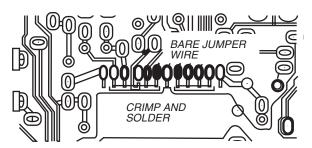
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

- Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
- Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

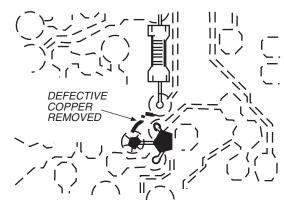


Install Jumper Wire and Solder

- Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
- 4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

- Remove the defective copper pattern with a sharp knife.
 Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.
- 2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.
- Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

NOTE: These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used.

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or $1.6K\Omega$ resistor, $0 = 0\Omega$ (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

Component Removal

- 1. Use solder wick to remove solder from component end caps or terminals.
- 2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
- 3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

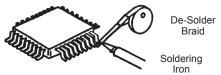
Chip Component Installation

- 1. Put a small amount of solder on the board soldering pads.
- 2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

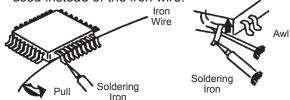
Chip Components TYPE SOLDER GRADE CAPS TRANSISTOR CAPACITOR 1ST DIGIT 2ND DIGIT COMMON CATHODE MUI TIPI IFR 1600 = 1.6K ANODES SOLDER CAPS MH DIODE RESISTOR

How to Replace Flat-IC —Required Tools—

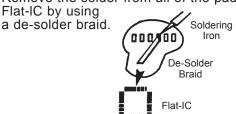
- Soldering iron
- · iron wire or small awl
- · De-solder braids
- Magnifier
- 1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



3. Remove the solder from all of the pads of the

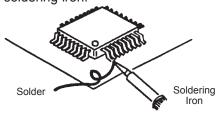


 Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by

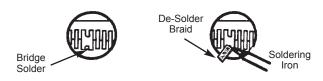
correctly aligning the polarity

symbol.

Solder all pins to the soldering pads using a fine tipped soldering iron.



6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



Information for service about lead-free solder introduction

Hitachi introduced lead-free solder to conserve the "Earth Environment".

Please refer to the following before servicing.

(1) Characteristic of lead-free solder

Melting point of lead free solder is 40-50°C higher than solder containing lead.

(2) Solder for service

Following composition is recommended.

" Sn - 3.0Ag - 0.5Cu ", or " Sn - 0.7 Cu "

Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.

Caution when using solder containing lead.

Please remove previous solder as much as possible from the soldering point.

When soldering, please perfectly melt the lead-free solder to mix well with the previous solder.

(3) Soldering iron for lead-free solder.

Melting point of lead-free solder is higher than solder containing lead.

Use of a soldering tool "with temperature control" and "with much thermal capacitance" is recommended. (Recommended temperature control : 320°C - 450°C)

Recommended temperature

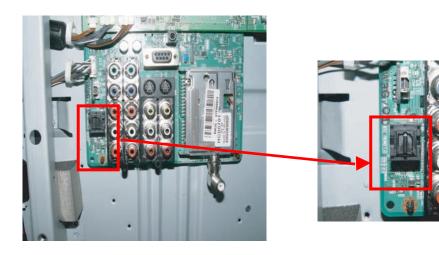
PWB with chip parts 320°C +/- 30°C PWB without chip parts 380°C +/- 30°C Chassis, metal, shield etc. 420°C +/- 30°C

(4) Identification of lead-free PWB

2004 models >> lead-free solder is introduced

2006 models >> lead-free solder apply

On lead-free PWB, "F" is added at the beginning of stamp on PWB. (e.g. F DW3-TERMINAL)



AGENCY REGULATORY INFORMATION

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

received, including interference that may cause undesired operation.

FCC Information

This device complies with part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This decide may not cause harmful interference and (2) This decide must accept any interference

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America ,Ltd. Home Electronics Division may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

Note

This LCD Television receiver will display television closed captioning, (cc paragraph 15.119 of the FCC rules.

INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

ACKNOWLEDGMENTS AND TRADEMARKS



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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

INTRODUCTION

This HITACHI Service Manual is intended for the qualified service personnel and it contains the necessary information for troubleshooting the LCD television set in case of malfunction.

This service manual includes the information for the next models and chassis.

| MODEL | CHASSIS |
|---------|---------|
| L47S601 | DW3G |
| L47V651 | DW3G |

DIMENSIONS:

Height: 805 mm(with table top stand).

Width: 1151.3 mm

Depth: 366 mm (with table top stand).

POWER RATINGS:

| | | | Indicate | d Value | Psi | Γ(W) | |
|-----|------------|------------|----------|------------|--------------|---------------|---------|
| | | Max Rating | | Average | Without POD. | With POD. | |
| No. | Model Name | (W) | (A) | Rating (W) | less than 1W | less than 14W | Chassis |
| 1 | L47S601 | 303 | 2.55 | 303 | 0.6 | - | DW3G |
| 2 | L47V651 | 303 | 2.55 | 303 | 0.6 | - | DW3G |

CIRCUIT PROTECTION

CAUTION: Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:



The rating of fuse F1 is 8 A - 125V.

"RISK OF FIRE - REPLACE FUSE AS MARKED"

Replace with the same type fuse for continued protection against fire.

8 A 125V

SPECIFICATIONS

APPEARANCE

| Model name | Series Name | Cabinet Design |
|------------|-------------|---|
| L47S601 | UltraVision | Gloss Black/Frame, High Gloss Black/Bezel, High Gloss Hidden/SP |
| L47V651 | UltraVision | Gloss Black /Frame,High Gloss Black/Bezel, High Gloss Hidden/SP |

SYSTEM

| | | | Ch | nannel coverage band | Red | ception sys | tem |
|-----|------------|---------|---------|---------------------------|------|-------------|--------|
| No. | Model name | VHF(ch) | UHF(ch) | CATV(ch) | NTSC | ATSC | 64QAM/ |
| | | | | | | (8VSB) | 256QAM |
| 1 | L47S601 | 2~13 | 14~69 | A-5~A-1, A~I,J~W,W+1~W+94 | Х | Х | Х |
| 2 | L47V651 | | | | X | Χ | X |

STRUCTURAL DIMENSIONS

| No. | Model name | WIDTH | HEIGHT | DEPTH | WEIGHT | |
|-----|------------|--------|--------|-------|--------|------------------------|
| | | [mm] | [mm] | [mm] | [kg] | Note |
| 1 | L47S601 | 1151.3 | 805* | 366* | 33.7 | *With table top stand. |
| 2 | L47V651 | 1151.3 | 805* | 366* | 33.7 | *With table top stand |

EXTERNAL TERMINALS AND JACKS

| Model | Rear | | | | | | | | | | |
|---------|------|----|-------|------|-----|-----|-----------|-----|-----|-----------|------|
| name | A/V | S | COMP. | HDMI | М | Α | Subwoofer | ANT | OPT | DV IN | POD |
| | IN | IN | IN | | OUT | OUT | OUT | IN | OUT | IEEE 1394 | CARD |
| L47S601 | 3 | 1 | 2 | 2 | 1 | 1 | - | 1 | 1 | - | _ |
| L47V651 | 3 | 1 | 2 | 2 | 1 | 1 | _ | 1 | 1 | _ | _ |

| Model | Side | | | | | | | Rear | | | |
|---------|------|----|-------|------|-------|---------|----|-------------|---------|--------|--------|
| name | A/V | S | COMP. | HDMI | Photo | Upgrade | DV | IR OUT | IR OUT | SWIVEL | RS232C |
| | IN | IN | IN | | (SD) | | IN | | /G-LINK | OUT | |
| L47S601 | 1 | _ | _ | 1 | _ | 1 | _ | (1:Service) | _ | 1 | 1 |
| L47V651 | 1 | _ | _ | 1 | 1 | 1 | _ | (1:Service) | _ | 1 | 1 |

MAIN FEATURES

| No. | Feature | L47S601 | L47V651 |
|-----|--------------------------------------|---------|---------|
| 1 | Panel | LPL | LPL |
| 2 | Resolution | 1920x | 1920x |
| | resolution | 1080p | 1080p |
| 3 | Front Filter with ARF | | |
| 3 | (Transparency) | _ | |
| 4 | Seine2 | Х | X |
| 5 | FRC (FC8) | _ | _ |
| 6 | One NTSC/ATSC Tuner | Х | X |
| 7 | POD (Point Of Deployment) | _ | _ |
| 8 | PinP (Digital/External Analog SPLIT) | _ | X |
| 9 | 3 Picture Mode | Х | Х |
| 10 | Color Temperature Mode | 4 | 4 |
| 11 | Color Decoding Adjustment | _ | _ |
| 12 | Color Management Adjustment | _ | _ |
| 13 | 7 Mode Aspect Ratio Interchangeable | X | X |

| No. | Feature | L47S601 | L47V651 |
|-----|-------------------------|---------|---------|
| 14 | EPG (G-GUIDE) Function | _ | _ |
| 15 | SD-card Photo Viewer | _ | Χ |
| 16 | Audio Output | 10W x2 | 10W x2 |
| 17 | Swivel | Power | Power |
| 18 | AV NET, AV NET Learning | _ | _ |
| 19 | IR Pass Through | _ | _ |
| 20 | OSD Design | В | С |
| 21 | Energy Star | _ | _ |



POWER CONSUMPTION

| MODEL | INDICATED | VALUE | | PST | [W] | CHASSIS |
|---------|-------------|-------------|------------------|-------------|----------|---------|
| NAME | Max. Rating | Max. Rating | (Average Rating) | Without POD | With POD | |
| L47S601 | 303W | 2.55A | 303W | 0.6W | - | DW3G |
| L47V651 | 303W | 2.55A | 303W | 0.6W | - | DW3G |

SAFETY KEY COMPONENTS

| No. | Model | Symbol No. | P# (Rating) | Standard |
|-----|------------------------------------|------------|-------------------|----------|
| 1 | L47S601/V651, L42S601/V651: (note) | F1 | FN00476 (8A/125V) | UL/CSA |
| 2 | L47S601/V651, L42S601/V651: (note) | F201 | (4A/250V) | UL/CSA |
| 3 | L47S601/V651, L42S601/V651: (note) | F101 | (1A/250V) | UL/CSA |

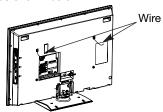
NOTE: The FUSE is in the power supply unit.

How To Set Up Your New Hitachi LCD Television

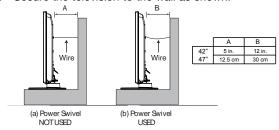
To take measures to prevent the LCD Flat Panel Television from tipping over and prevent possible injury it is important to mount the unit in a stable and flat surface.

Securing to a Wall

1. Using metallic wire (two places) fasten the set to the clamping screw on the rear of the LCD Flat Panel TV as shown below.



- 2. Keep the LCD television 4 inches away from the wall except when mounted using the wall mount
- 3. Secure the television to the wall as shown.



* Please adjust the wire length to avoid touching the wall when turning the TV.

- NOTES: 1. Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause fire or defect.
 - 2. In case of an abnormal symptom, unplug the AC cord.
 - 3. If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.

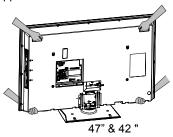


4. Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (for example their hands, head or face, etc.) against the edge of the unit and cause personal injury.

- 5. If the Power Swivel feature will not be used, the LCD television should be secured to the wall as shown in fig. (a).
- 6. If the Power Swivel feature will be used, the LCD television should be secured to the wall as shown in fig. (b).

Caution when moving the main unit

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and base on both sides of the Television for stability. When moving the Television, lift the handles, then support the bottom frame as shown below.

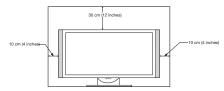


ANTENNA

Unless your LCD Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the ceiling. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance,

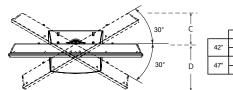


CONNECT POWER SWIVEL CABLE

Connect one end of cable to the swivel slot of the LCD Rear Panel. Connect the other end to swivel slot of the Table Top Stand. For more detail information, please refer to next page installation instruction.

TURNING ANGLE

The maximum turning angle is 30° (left and right). Do not place any objects on the path of the monitor when using the power swivel feature.



| C D 42" 9.1 in. 14.05 in. 23.1 cm 35.7 cm 10.2 in. 15.15 in. | Ļ | | | |
|---|----------|-----|----------|-----------|
| 42" 23.1 cm 35.7 cm | i . | | С | D |
| 23.1 cm 35.7 cm | <u>+</u> | 42" | 9.1 in. | 14.05 in. |
| 10.2 in. 15.15 in. | Î | 42 | 23.1 cm | 35.7 cm |
| | Ι. | 47" | 10.2 in. | 15.15 in. |
| 25.9 cm 38.5 cm | U | | 25.9 cm | 38.5 cm |



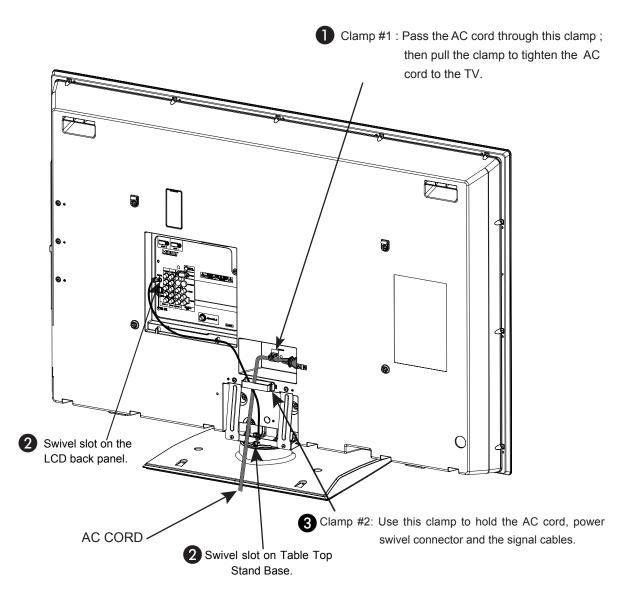
How to set up your new Hitachi LCD Television

AC CORD AND POWER SWIVEL CABLE INSTALLATION INSTRUCTION

The AC cord and power swivel cable provided with your new LCD Flat Panel Television need to be installed correctly to avoid their disconnection when rotating the TV on its Table top stand.

Located on the back of the TV are 2 plastic clamps to hold the AC cord and power swivel cable. Please follow the instructions below.

- Pass the AC cord through Clamp #1 and connect it to the TV. Pull on the clamp to tighten the AC cord to the TV.
- 2 Connect power swivel cable on one end to the swivel slot of the LCD Rear Panel. Connect the other end to the swivel slot of the Table Top Stand Base.
- The AC cord, power swivel cable and the signal cables can all be held together with Clamp #2.

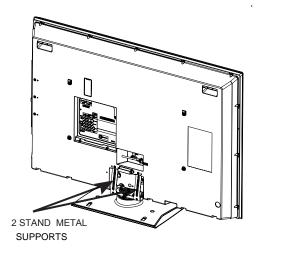


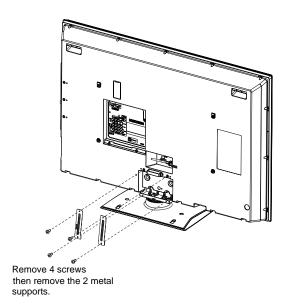
How to set up your new HITACHI LCD Television

SETTING FOR WALL MOUNTING

STEP (1) :

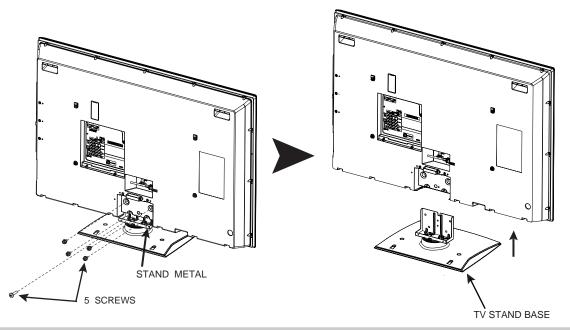
Please locate the STAND METAL SUPPORTS on the back of the TV . These metals is use to hold the TV and the Base; so it needs to remove 4 screws from the STAND METAL in order to separate the TV from the Base.





STEP (2):

Now please remove the 5 screws of the STAND metal from the TV, now the TV STAND can be separated from the TV.



For Model L47S601 & L47V651

CAUTION- This LCD Flat Panel for use only with Hitachi **WM07S** Wall Mount. Use with other Wall Mount is capable of resulting in instability causing possible injury.

TE: Use the specified WALL MOUNT unit for the LCD TV depending on the size of your TV. Please access our web site at: www.hitachi.us/tv (US) or www.hitachi.ca/tv (CAN) for recommended accessories for your TV.

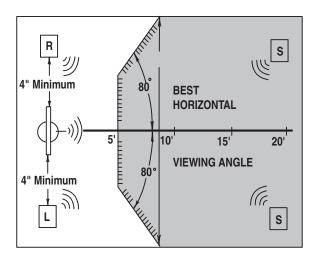
How to set up your new HITACHI LCD Television

VIEWING

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.



ANTENNA CONNECTIONS TO REAR JACK PANEL

VHF (75-Ohm) antenna/CATV (Cable TV)

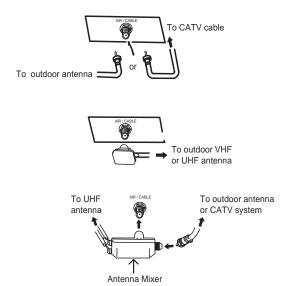
When using a 75-Ohm coaxial cable system, connect **CATV** coaxial cable to the AIR/CABLE (75-Ohm) terminal. Or if you have an antenna, connect the coaxial cable to the same AIR/CABLE terminal.

VHF (300-Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna, connect the **VHF** or **UHF** antenna leads to screws of the **VHF** or **UHF** adapter. Plug the adapter into the antenna terminal on the TV.

When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



NOTE: Connecting a 300-Ohm twin lead connector may cause interference. Using a 75-Ohm coaxial cable is recommended.

Hook-up Cables and Connectors

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

300-Ohm Twin Lead Cable

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).

Phono or RCA Cable

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and side control panel.

"F" Type 75-Ohm Coaxial Antenna

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

S-Video (Super Video) Cable

This connector is used on camcorders, VCRs and laserdisc players with an S-Video feature in place of the standard video cable to produce a high quality picture.

Optical Cable

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.

HDMI Cable

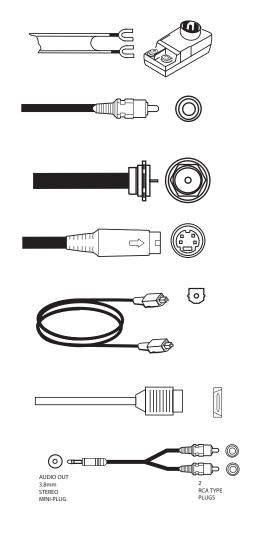
This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection to the TV's **HDMI** input.

Stereo Cable (3.8mm plug to 3.5mm plug)

Used on all standard video and audio cable which connect to inputs and outputs located on the rear jack panel and side control panel.

Power Swivel Cable (Provided)

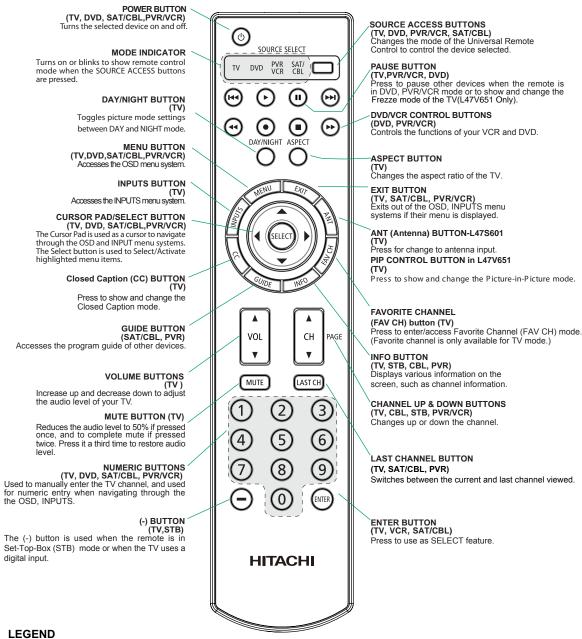
This cable is used to connect the swivel stand to the rear panel of the LCD Television.





Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your HITACHI LCD TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), set-top-boxes, satellite receivers, and VCRs. The remote control must be programmed to control the chosen device.

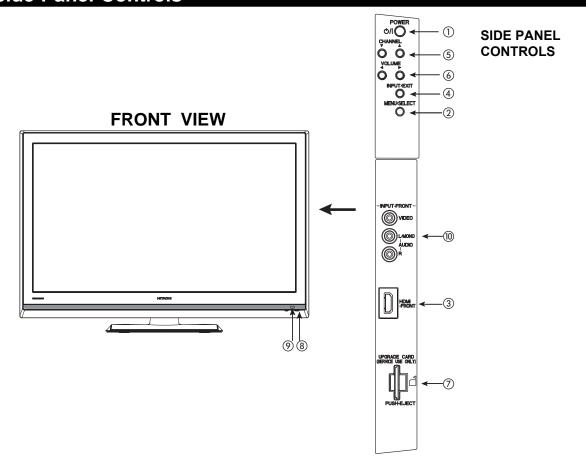


PVR - Video Recorder/Player TV - Television CBL - Cable Box DVD - Digital Video Disc Player VCR - Videocassete Recorder SAT - Satellite

NOTES: 1. The TV's remote control sensor is located on the right bottom portion of the TV screen. To control TV functions, please point the remote control directly at the remote control sensor for best results.

VCR precode is included in the PVR mode.

Side Panel Controls



SIDE POWER button

Press this button to turn the LCD Television ON/OFF. It can also be turned ON/OFF by remote control. The "MAIN POWER" can only be turn OFF by unplugging the power cord from the outlet. After this button is pressed to turn ON the set, the function of this button will not be available for a short period of time until the picture appears on the TV screen.

NOTE: When the TV is unplugged, the clock will stop and may eventually reset itself.

2 MENU/SELECT button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

③ HDMI-FRONT

Use the side HDMI input for external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection.

4 INPUT/EXIT button

Press this button to access the INPUT menu. Press again to exit the MENU mode.

⑤ CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

(6) VOLUME level

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (\blacktriangleleft) and right (\blacktriangleright) buttons when in MENU mode.

7 Upgrade Card

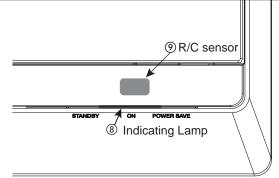
This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

SD CARD PHOTO INPUT (L47V651 only) To view digital still pictures, please insert an SD/MMC card in to the card slot with pictures taken on a Digital camera, to view them on the TV screen.

Side Panel Controls

8 POWER light indicator

To turn the TV ON, press the power button located on the right side of the TV set. A red stand-by indicator lamp located on the lower right corner of the front bezel is illuminated. The LCD TV is now ready for remote ON/OFF operation.



| Indicating Lamp | Power Status | Operating |
|------------------|-----------------------|---|
| Off | OFF. | When the TV set is unplugged from AC line. |
| Lights Red | OFF. (Stand-by) | When the TV set is plugged to the AC line. |
| Lights Blue | On | TV POWER is ON ; picture is shown. |
| Lights Orange | Off (Power Saving) | TV POWER is ON with no signal input except antenna (no sync. signal). |
| Blinking Blue | On | When TV receives the IR signal from R/C. |

REMOTE CONTROL sensor

Point your remote at this area when selecting channels, adjusting volume, etc.

10 INPUT- FRONT JACKS

INPUT- FRONT provide composite Video jacks for connecting equipment with this capability, such as a DVD player or Camcorders.

NOTES:

- 1. Your HITACHI LCD TV will appear to be turned OFF (lights orange) if there is no video input when INPUT: 1, 2, 3, Front and HDMI 1, 2, Front. Check the Power Light to make sure the TV is turned off or in Stand-by mode (lights red) when not in use.
- 2. Remote Control can not turn ON/OFF the "MAIN POWER" of the TV.

Rear Panel Connections

(1) Antenna Input

To switch between Cable and Air input, go to the Channel Manager option to change the signal source CABLE or AIR.

2 Audio/Video Inputs 1, 2 and 3

By using the INPUTS button, the CURSOR PAD (▲ and ▼), and the SELECT button or CURSOR PAD ▶ of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

③ MONITOR OUT & AUDIO OUT

These jacks provide fixed audio and video signals (CABLE/AIR or INPUTS) which are used for recording. Use the S-VIDEO output for high quality video output. Component signal to Input 2 and 3, and HDMI inputs will not have monitor output.

(4) Optical Out (Digital Audio)

This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

NOTE: *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

⑤ S-VIDEO Input 1

Input 1 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

NOTE: 1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 1, but only one of these inputs may be used at a time.

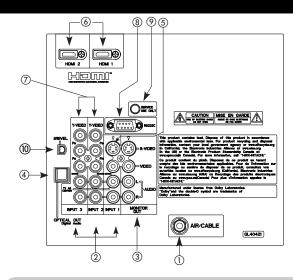
S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.

(a) HDMI 1, 2 (High Definition Multimedia Interface)

ABOUT HDMI – HDMI is the
next-generation all digital interface for consumer
electronics. HDMI enables the secure distribution
of uncompressed high-definition video and multichannel audio in a single cable. Because digital
television (DTV) signals remain in digital format,
HDMI assures that pristine high-definition images
retain the highest video quality from the source all
the way to your television screen.

Use the **HDMI** input for your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection.

HDMI, the **HDMI** logo and High-Definition Multimedia Interface are trademarks or registered trademarks of **HDMI** Licensing LLC.



- **NOTE:** 1. The HDMI input is not intended for use with personal computers.
 - 2. Only DTV formats such as 1080p, 1080i, 720p, 480i and 480p are available for HDMI input.

7 Component: Y-PBPR Inputs

INPUTS 2 and **3** provide Y-PBPR jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

NOTE: 1. Do not connect composite VIDEO and S-VIDEO to INPUT 1 at the same time. S-VIDEO has priority over VIDEO input.

- 2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input.
- 3. Your component outputs may be labeled Y-CBCR. In this case, connect the component CB output to the TV's P_B input and the component CR output to the TV's PR input.
- 4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs.
- 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks and HDMI Input.
- INPUT 2 , and 3 (Y/VIDEO) can be used for composite video and component video input.
- **8** For Special AV control use only.
- 9 For Factory use only.

10 Power Swivel Connector

Connect from here the Power Swivel cable (provided) to the Table Top Stand Base swivel slot.

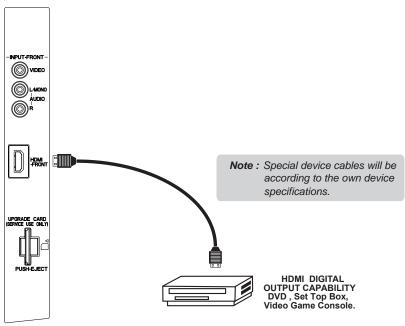
DW3G

Connecting External Video Sources

The SIDE panel jacks are provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, Set Top Box , Video Game as shown in the following examples (When connecting DVI signal it will need to connect the audio output into the side Audio Input jacks):

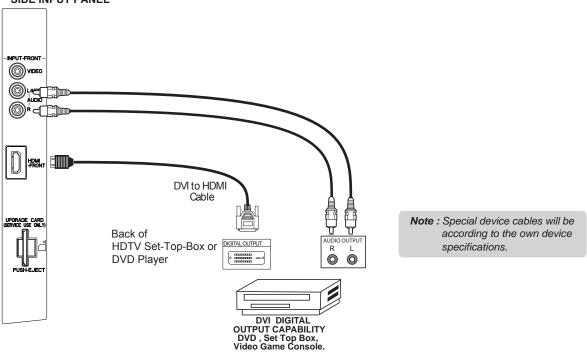
A) Connecting HDMI signal.

SIDE INPUT PANEL



B) Connecting DVI signal.

SIDE INPUT PANEL

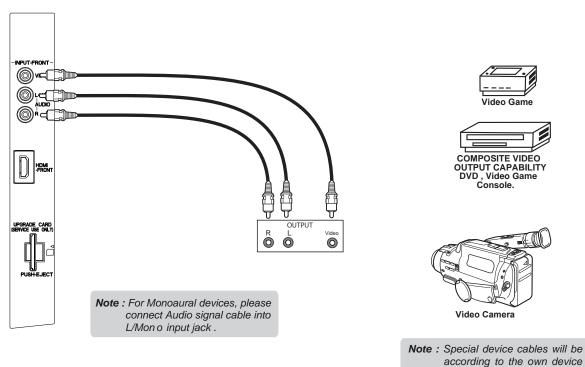


NOTE: 1. Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the played back picture may be abnormal.

Connecting External Video Sources

The SIDE panel jacks are provided as a convenience to allow you to easily connect a camcorder, DVD, Video Game and a VCR as shown in the following examples:

SIDE INPUT PANEL



NOTE:1. Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the played back picture may be abnormal.

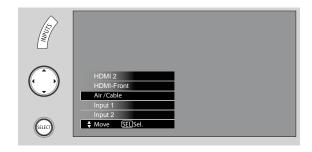
specifications.

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTVSet Top Box to your LCD TV is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

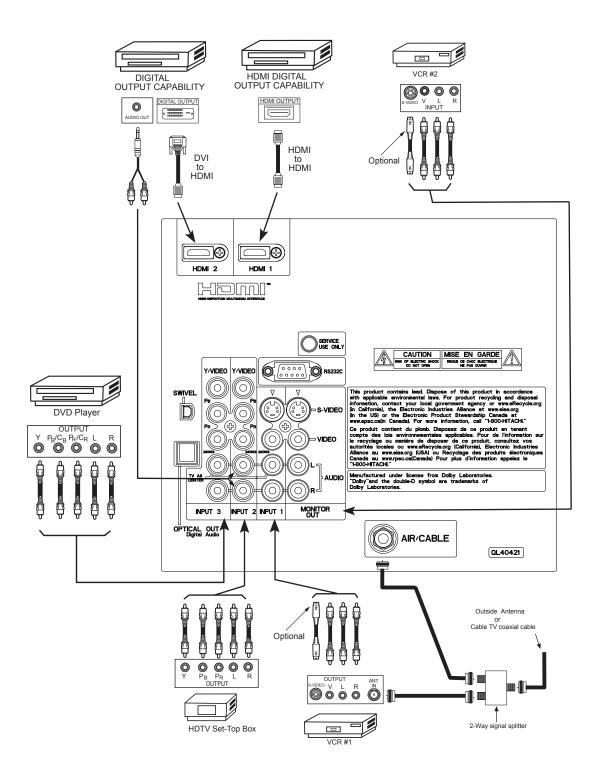
The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

Before Operating External Video Source

Connect an external source to one of the INPUT terminals, then press the INPUTS button to show the INPUTS menu. Use the CURSOR PAD (\blacktriangle and \blacktriangledown) to select the Input of your choice. Then press the SELECT button or the CURSOR PAD \blacktriangleright to confirm your choice.



Rear Panel Connections



NOTE: Cables are optional, except when specified.

Tips on Rear Panel Connections

- S-VIDEO, Y-PBPR, or HDMI connections are provided for high performance laserdisc players, VCRs etc. that
 have this feature. Use these connections in place of the standard video connection if your device has this
 feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on (L/(MONO)) the Rear Panel.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-P_BP_R (Input 2 & 3) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_B input and the components R-Y output to the TV's P_B input.
- Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_B output to the TV's P_B input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_B inputs.
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR and HDMI input jacks.
- Input HDMI 1, HDMI 2 or HDMI FRONT can accept HDMI signal.
- S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type.
- When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080p, 1080i or 720p input signal.
- When HDMI input a 1080p signal, it is recommended that the length of the cable be less than 5 meters.

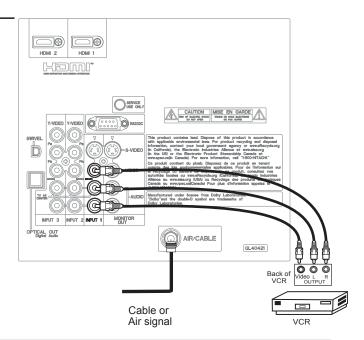
INSTALLATION RECOMMENDATION:

- 1. Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television.
- Connecting the television directly to the Audio/Video output of a Set-Top-Box will assure a more normal picture.

Connecting External Video Sources

CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO INPUT1 ~ INPUT-FRONT

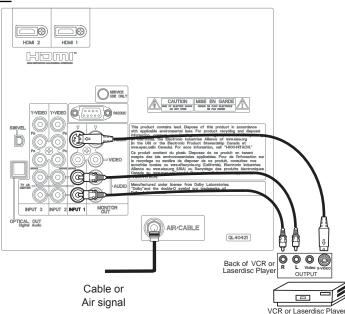
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel to the right.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- Press the INPUTS button, then select INPUT 1 2,3 or Front from the INPUTS menu to view the program from the VCR or laserdisc player.
- Select CABLE or AIR from the INPUTS menu or ANT key from the R/C to return to the last channel tuned.



- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - 2. A single VCR can be used for VCR #1 and VCR #2 but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.
 - 3. When INPUT 2 or 3 are used, it is necessary to connect the video output of the device to the Y/VIDEO input jack of the TV.

CONNECTING AN S-VIDEO AND STEREO AUDIO SOURCE TO INPUT 1

- Connect the cable from the S-VIDEO OUT of the S-VHS VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the Rear Panel to the right.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUTS button, then select INPUT 1 from the INPUTS menu to view the program from the VCR or laserdisc player.
- Select CABLE or AIR from the INPUTS menu or ANT key from the R/C to return to the last channel tuned.



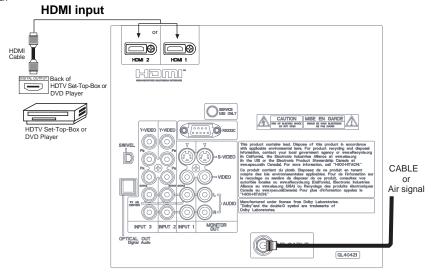
- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record
 its own video or line output. Refer to your VCR operating guide for more information on line inputoutput connections.

Connecting External Video Sources

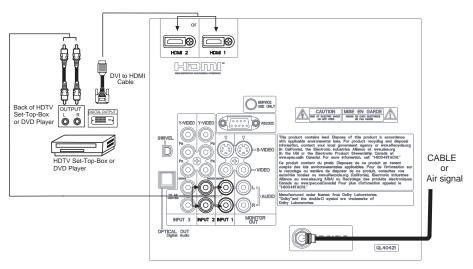
CONNECTING A COMPONENT SOURCE WITH HDMI OR DVI CAPABILITY TO HDMI 1, HDMI 2 OR HDMI FRONT

- Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown on the Rear panel below.
- With DVI output, connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack as shown on the Rear Panel below.
- With DVI output, connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack as shown on the Rear Panel below.
- Press the INPUTS button, then select HDMI 1, 2 or FRONT to view the program from the HDTV SET TOP BOX or DVD player.
- Select CABLE or AIR from the INPUTS menu or ANT key from the R/C to return to the last channel viewed.

- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - The HDMI input on HDMI 1, 2 and FRONT contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.
 - HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
 - The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.
 - When using a DVI to HDMI cable, connect the Audio Out L and R cables at the same INPUT (1, 2 or Front) as your HDMI INPUT(1, 2 or Front).



DVI to HDMI Input



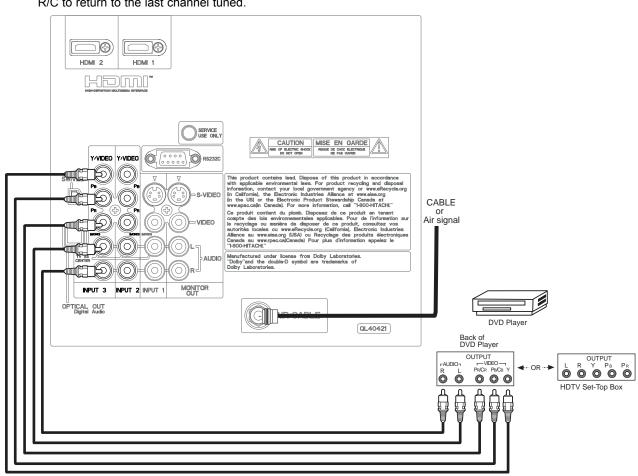
Connecting External Audio/Video Devices

CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO INPUT 2 or 3 :Y-PBPR.

- Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the Rear panel below.
- Connect the cable from the P_B/C_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
- Connect the cable from the P_R/C_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
- Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
- Press the INPUTS button, then select INPUT 2 or 3 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box.
- Select CABLE, AIR or ANT key from the R/C to return to the last channel tuned.

NOTE: 1. Completely insert the connection cord plugs when connecting to rear panel jacks.

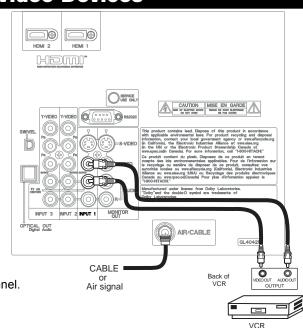
The picture and sound that is played back will be abnormal if the connection is loose.



Connecting External Audio/Video Devices

CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO INPUT 1 ~ FRONT INPUT

- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel on the right.
- Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- Press the INPUTS button, then select INPUT 1 2,3 or Front from the INPUTS menu to view the program from the VCR or the laserdisc player.
- Select CABLE or AIR from the INPUTS menu or ANT key from the R/C to return to the previous channel.



CONNECTING AN EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the LCD TV to an external audio amplifier, connect the system as shown on the right. The "OPTICAL OUT" from the Rear Panel is a fixed output. The Volume of the amplifier is controlled by the amplifier, not by the LCD Television. The OPTICAL OUT terminal outputs all audio sources with Optical IN capability.

 Connect an optical cable from the Optical out to the Optical input of a separate Stereo System Amplifier as shown on the Rear Panel on the right.

The product contribute lead. Dispose of this product is escondarious of the product in escond

CONNECTING MONITOR OUT

The MONITOR OUT terminal outputs video and audio of CABLE/AIR and INPUTS 1, 2, 3 and Front. It does not output component and HDMI video.

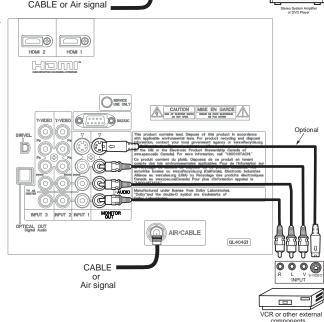
Connecting S-Video:

Connect the cable from the S-VIDEO OUT of the Rear Panel to the INPUT (S-VIDEO) jack, of the VCR or Laserdisk player.

Connecting Video:

Connect the cable from the VIDEO INPUT of the VCR or the laserdisc player to the VIDEO out jack on the TV Rear Panel.

- Connect the cable from the AUDIO IN R of the VCR or the laserdisc player to the OUTPUT (AUDIO/R) jack on the TV Rear Panel.
- 3. Connect the cable from the AUDIO IN L of the VCR or the laserdisc player to the OUTPUT (AUDIO/L) jack on the TV Rear Panel.



NOTE: When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority.

DW3G

TABLE OF CONTENTS OF ADJUSTMENTS

TO GO TO A SECTION, CLICK ON ITS HEADING BELOW.

| 1. | Adjustment procedure start-up | 32 |
|----|--|----|
| | 1.1. How to get into adjustment mode | 32 |
| | 1.2. Changing data and selecting adjustment code | 32 |
| 2. | Memory Initialize | 32 |
| | 2.1. Memory Initialize operation | 32 |
| | 2.2. Factory and service adjustments | 33 |
| 3. | Video Adjustment | |
| | 3.1. Sub-contrast and clamp adjustment | 33 |
| 4. | White balance adjustment | |
| | 4.1. Video Color Temperature adjustment (High) | 34 |
| | 4.2. Video Color Temperature adjustment (Medium) | 34 |
| | 4.3. Video Color Temperature adjustment (Standard) | 35 |
| | 4.4. Video Color Temperature adjustment (B&W) | 35 |
| 5. | Digital Main Check | 35 |
| 6. | Picture Check | 36 |
| 7. | Factory Reset | 36 |

1 ADJUSTMENT PROCEDURE START-UP

The L47S601 and the L47V651 LCD TV sets pass through adjustment procedures during the assembly process. These adjustments must be done to enssure the best performance of the LCD set for the consumer.

Also, after servicing, these same adjustments must be done. The adjustments are all made through the I²C bus by changing data in the Adjustment mode menu.

1.1 HOW TO GET TO THE ADJUSTMENT MODE

Chassis adjustment mode can be accessed by pressing the R/C keys MENU + MENU + 8 + SELECT to enter adjustment mode. For some parameters the only way to see them is by selecting the parameter number then press SELECT in order to see it; then DATA can be changed if other parameter needs to change then press

▼ key then repeat the same procedure.

ADJUST MODE
FACT RESET
MEMORY INIT
RGB
WHITE BAL HIGH
WHITE BAL MED
WHITE BAL STD
WHITE BAL B/W

Other way to access this mode is by use JIG R/C code: (9C Hex). To escape from Adjustment Mode press "INPUT" key on Side panel or EXIT key of R/C to exit service adjustment mode.

1.3 CHANGING DATA AND SELECTING ADJUSTMENT CODE

When the LCD set is in adjustment mode, the cursor ◀, ▶, ▲, ▼ and MENU keys of the remote control or side panel

may be used as the adjustment keys.

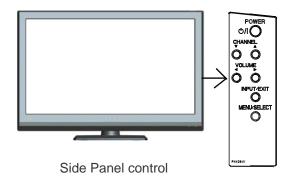
A. Use any Hitachi remote control when making an adjustment.

- ▲, ▼ keys are used for selecting adjustment item.
- ◄, ► keys are used for changing data values.

 MENU key is used to advance through the adjustment mode menus and pages.



Part of S and V models remote control keys. *Note:PIP key(V Models), ANT key(S models)



- B. To make a selection, use the NUMBER pad on the LCD R/C; example: select DEVICE press 69 then SELECT the DATA shown is "EB"; if this DATA needs to be changed press the ◀, ▶, keys to modify, when finish press SELECT key to store the new DATA value. normal condition.
- C. After finishing the necessary adjustment press the R/C EXIT key or EXIT key on the side panel. Adjustment mode is released and LCD set returns to normal condition.

2 MEMORY INITIALIZE

2.1 MEMORY INITIALIZE OPERATION

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

Procedure

- (1) Enter Adjustment mode by the method described in sub-items 1.1 and 1.2 from item 1 ("Adjustment procedure start up").
- (2) Get to the second row of Adjust Mode by pressing R/C or side panel ▼ cursor key once.
- (3) Select MEMORY INIT adjust code.
- (4) Activate MEMORY INIT by pressing ► cursor key for more than 3 seconds.
- (5) Check the following process for initialization operation.

2.1 Process of Memory Initialize operation.

- 1 The screen is colored **blue** when MEMORY INIT start.
- ② The screen is colored green when MEMORY INIT finish normally.
- ③ The screen is colored red when MEMORY INIT finish abnormally.
- (6) Do not unplug from AC outlet until this operation is complete and do not perform any key operation either, after this operation each factory setting and all adjust mode data should reset to delivery settings automatically.
- (7) After Memory Initialize, the AC cord should be unplugged. Unplug and plug the AC cord and then all settings and data will be updated.
- (8) When LCD turns ON , it will tune CH03 this is the complete operation of Memory Initialize process.

2.2 FACTORY AND SERVICE ADJUSTMENTS

The adjustment item that is affected by the memory initialize operation is shown below:

| ITEM | MEMORY INITIALIZE | PROTECTION DATA | FACTORY RESET | MMC SOFTWARE UPGRADE | BECKHAM SOFTWARE UPGRADE |
|-------------------------------------|----------------------|--------------------|--------------------|----------------------------|--------------------------------|
| WHITE BALANCE ADJUSTMENT DATA | NOT INITIALIZED | INITIALIZED | NOT INITIALIZED | NOT INITIALIZED | INITIALIZED |
| SUB CONTRAST ADJUSTMENT DATA | NOT INITIALIZED | INITIALIZED | NOT INITIALIZED | NOT INITIALIZED | INITIALIZED |
| CLAMP OFFSET ADJUSTMENT DATA | NOT INITIALIZED | INITIALIZED | NOT INITIALIZED | NOT INITIALIZED | INITIALIZED |
| OTHER ADJUSTMENT MODE DATA | INITIALIZED | NOT INITIALIZED | NOT INITIALIZED | NOT INITIALIZED | INITIALIZED |
| FACTORY RESET | INITIALIZED | NOT INITIALIZED | INITIALIZED | NOT INITIALIZED | INITIALIZED |

Note: Perform pre heat-run for more than 20 min. before adjusting.

3 Sub-Contrast Adjustment

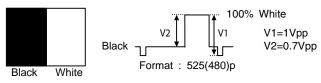
Preparation for adjustment

- (1) Pre-heat at least 2 min. before the adjustment.
- (2) Recall user menu and select 'Video'→ 'Picture Mode'→ 'Day(Dynamic)'→ 'Reset'.
- (3) Receive following signal into input3 or input4(Comp) input.

Adjustment procedure

3.1 525p Sub-Contrast, Y/Cb/Cr Clamp offset adjustment

(1) Receive following 525(480)p Signal.



Adjustment signal for 525(480)p format

- (2) Go into Service Adj. Menu and select 'RGB'.
- (3) Press ▶ for over 2 seconds and the TV will do automatic adjustment. When it's completed, the OSD will appear, during adjustment, it will disappear.

4 WHITE BALANCE ADJUSTMENTS

General Notes for White Balance

- (1) If the incident illumination is more than 20 lux, change the environment (location, lighting, etc.) and ensure it to be less than 20 lux.
- (2) At least one of the color drive codes must stay at its default value, 110.

4.1 VIDEO COLOR TEMPERATURE ADJUSTMENT (HIGH)

Preparation 1

- (1) Set the output of signal generator to white raster. (Ratio:100%)
- (2) Component signal (480i)

Video level: 0.700Vp-p SYNC: 0.300Vp-p Set-up level: 0V

- (3) Input white raster signal into COMPONENT input terminal of the LCD set.
- (4) Set user control to Day(Dynamic) mode. (Picture Mode)
- (5) Confirm that the mode is set as "Factory Setting Mode".
- (6) Aspect: 4:3 Expanded
- (7) Allow at least 20 minutes heat-run before adjusting.

Adjustment

- Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (non contact type: CA-210, BM-5, BM-7, CA-110) at the center of the panel.
- (3) Set color temperature to "HIGH".
- (4) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as 110.
- (5) After receiving the White raster signal, reduce the value of two (or only one) of the adjustment parameters R/G/B DRIVE (HIGH) and adjust to the target value shown below.

Specification Video Color temperature (HIGH)

> $x = 0.273 \pm 0.005$ $y = 0.273 \pm 0.005$

(Color temp: 12000K-7MPCD)

At least one of the data should be 110.

Remarks

- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
- (3) Video color temperature & Adjustment no. are the same, but addresses in the memory are different, thus there's no problem.

4.2 VIDEO COLOR TEMPERATURE ADJUSTMENT (MEDIUM)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)".

Adjustment

- (1) Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (non contact type: CA-210, BM-5, BM-7, CA-110) at the center of the panel.
- (3) Set color temperature to "MEDIUM".
- (4) Ensure that Adjustment R/G/B DRIVE (MEDIUM) are all set as 110.
- (5) After receiving White raster signal, reduce the value of two (or only one) of the adjustment parameters R/G/B DRIVE (MEDIUM) and adjust to the target value shown below.

Specification
Video Color temperature (MED)

 $x = 0.285 \pm 0.005$ $y = 0.293 \pm 0.005$ (Color temp: 9300K)

At least one of the data should be 110.

Remarks

- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
- (3) Video color temperature & Adjustment no. are the same, but addresses in the memory are different, thus there's no problem.

4.3 VIDEO COLOR TEMPERATURE ADJUSTMENT (STD)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)".

Adjustment

- Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (non contact type: CA-210, BM-5, BM-7, CA-110) at the center of the panel.
- (3) Set color temperature to "STANDARD".
- (4) Ensure that Adjustment R/G/B DRIVE (STD) are all set as 110.
- (5) After receiving the White raster signal, reduce the value of two (or only one) of the adjustment parameters R/G/B DRIVE (STD) and adjust to the target value shown below.

Specification Video Color temperature (STD) $x = 0.314 \pm 0.005$ $y = 0.323 \pm 0.005$ (Color temp: 6500K)

At least one of the data should be 110.

Remarks

- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
- (3) Video color temperature & Adjustment no. are the same, but addresses in the memory are different, thus there's no problem.

4.4 VIDEO COLOR TEMPERATURE ADJUSTMENT (B/W)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)".

Adjustment

- (1) Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (non contact type: CA-210, BM-5, BM-7, CA-110) at the center of the panel.
- (3) Ensure that Adjustment R/G/B DRIVE (B/W) are all set as 110.
- (4) After receiving the White Raster signal, reduce the value of two (or only one) of the adjustment parameters R/G/B DRIVE (B/W) and adjust to the target value shown below.

Specification Video Color temperature (B/W) $x = 0.335 \pm 0.005$ $y = 0.343 \pm 0.005$ (Color temp: 5400K)

At least one of the data should be 110.

Remarks

- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
- (3) Video color temperature & Adjustment no. are the same, but addresses in the memory are different, thus there's no problem.

5. DIGITAL MAIN CHECK

5.1 SYSTEM SOFTWARE VERSION CHECK

- (1) Press Menu button on the R/C or control panel.
- (2) Enter the SETUP options, and then look for UPGRADES option.
- (3) The Main software version will be display Vxxx.xxxx as shown on Fig. 1.
- (4) If this version needs to be changed for a design improvement or failure, please select the Upgrade Now button after inserting. the MMC/SD card with the new software.

Fig. 1 Software Version



- (5) The upgrading process begin by filling a bar, when finish the message will say, "Upgrade complete ..." when this appear unplug the TV from the AC line outlet to complete the process.
- (6) Now plug again the TV and verify the new software version.
- (7) The Main software version will display the latest version issued by Hitachi.

NOTE:

- Always check the service website for the latest software upgrade version.
 www.hitachiserviceusa.com.
- (2) In case that the upgrade fails or when a CARD is inserted with new version and can't upgrade; please perform the **FACTORY RESET** process to the TV, then try upgrading again.

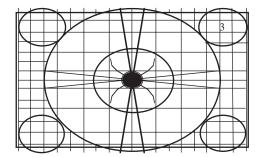
6. PICTURE CHECK

Preparation

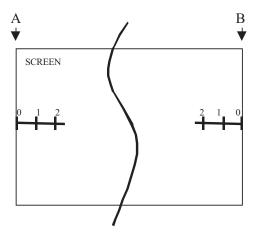
- (1) Set AC120±1V.
- (2) Turn on the power and leave it more than 5 min.
- (3) Input 480p and 1080i circle pattern into Component video 3. (ASPECT 16:9 Standard)

Checking

- (1) Receive 480p and 1080i signal, then check the following items 1~4:
 - 1. Check the symmetry of the pattern (right/left).
 - Check the horizontal position and the balance (right/left).
 - 3. Check the symmetry of the pattern (top/bottom).
 - 4. Check the vertical position and the balance (top/bottom).



Remarks



| SIGNAL | ASPECT | SPEC(A,B) |
|------------------------|----------------|-----------|
| Hitachi circle pattern | 16:9 Standard1 | 0 +/- 0.5 |
| | | |

7. FACTORY RESET

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

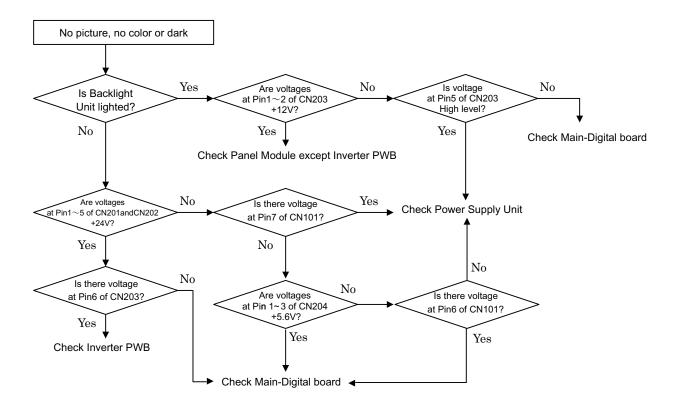
- Enter Adjustment Mode by the method described in sub-item 1-1 from page 32. ("Adjustment Procedure Start-up").
- (2) From the first menu in Adjustment Mode, select FACT RESET adjustment code.
- (3) Activate FACT RESET by pressing "Right" cursor key for more than 3 seconds.
- (4) Other procedure to acces the FACTORY RESET is by sending the 92 hex code with a programable R/C.
- (5) The procedure of the FACTORY RESET process is the following and the DATA table is shown next.

Process of FACTORY RESET operation.

- The screen is colored **magenta** when FACTORY RESET start.
- ② The screen is colored **green** when FACTORY RESET finish normally.
- ③ The screen is colored **RED** when FACTORY RESET finish abnormally.
- (6) After FACTORY RESET, the AC cord should be unplugged. Unplug and plug AC cord and then all settings and data will be updated.
- (7) When the LCD turns ON, it will tune CH03 this is the complete operation of FACTORY RESET process.

TROUBLE-SHOOTING FLOW CHARTS

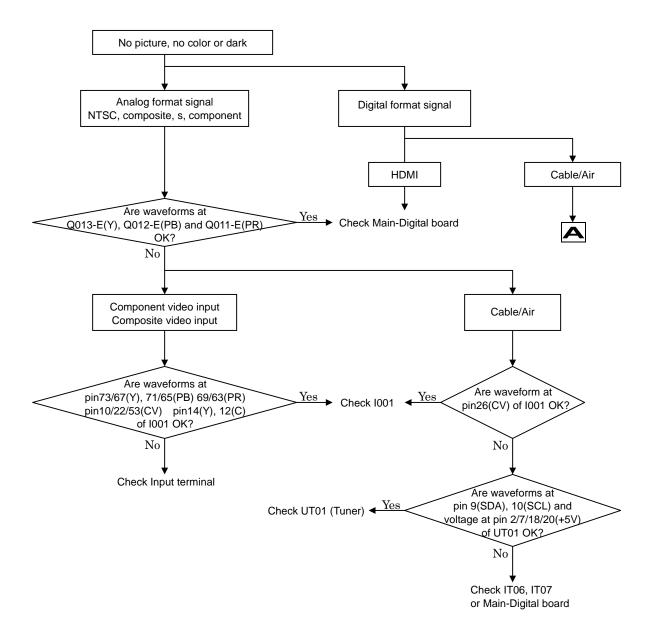
LCD Panel Module troubleshooting.



DW3G

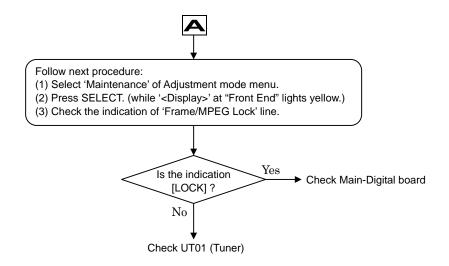
TROUBLE-SHOOTING FLOW CHARTS

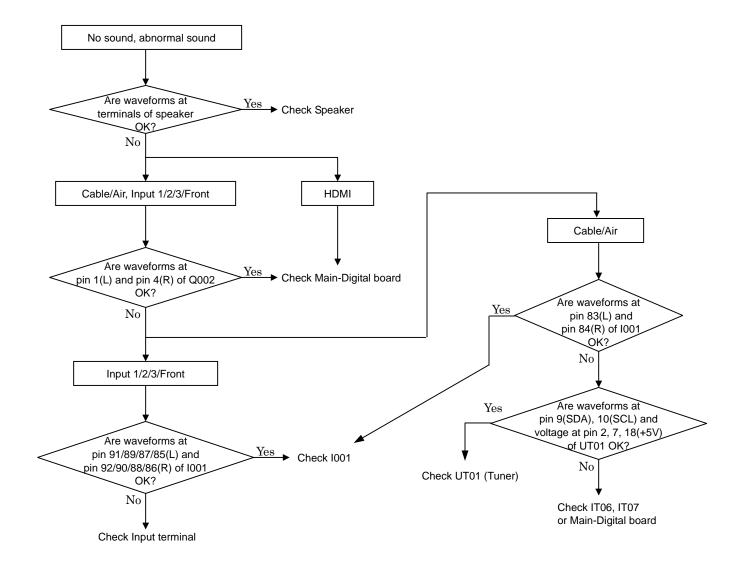
Terminal PWB circuit troubleshooting



TROUBLE-SHOOTING FLOW CHARTS

...Terminal circuit Troubleshooting diagram continued.

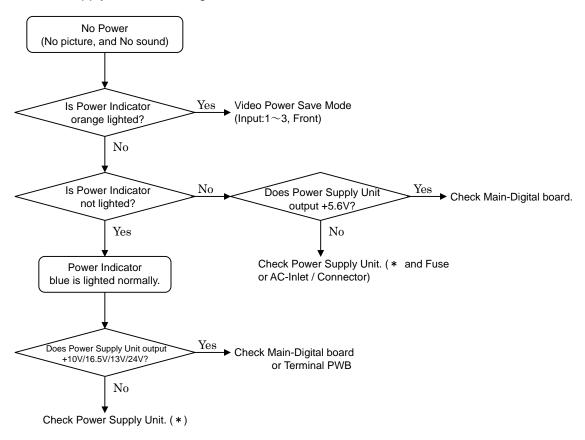




DW3G

TROUBLESHOOTING FLOW CHARTS

Power Supply troubleshooting



(*) Power-On control signal for Power Supply Unit

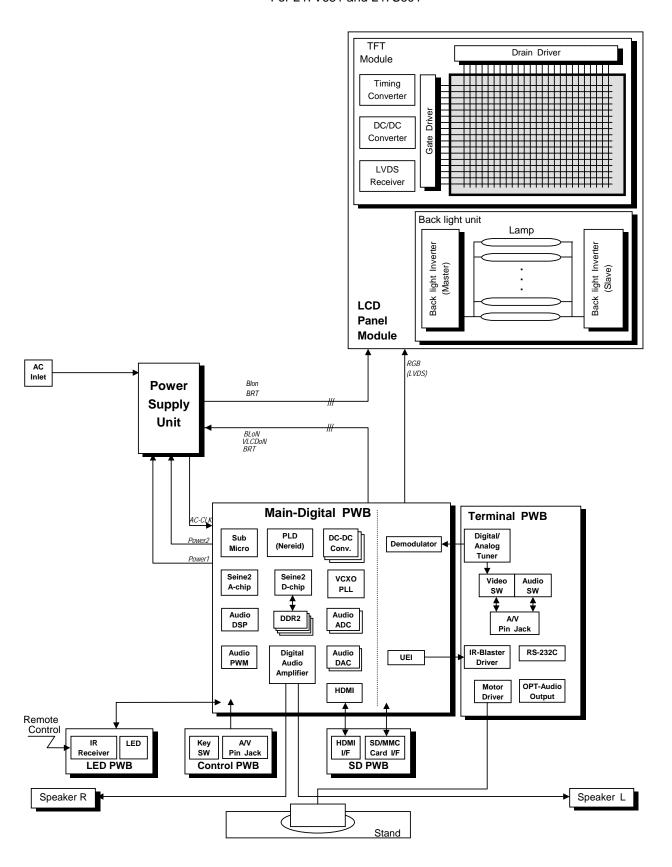
- (1) Power connected : ON \rightarrow PSU outputs STBY+5V.
- (2) PoWER_1 (CN101 [6]) : High \rightarrow PSU outputs +5.6V.
- (3) PoWER_2 (CN101 [7]): High → PSU output +10V,16.5V, audio 13V and 24V.

If any control signal does not rise, PSU cannot output the voltage.

• PoWER_1/2 : not rise ---- Main-Digital PWB trouble

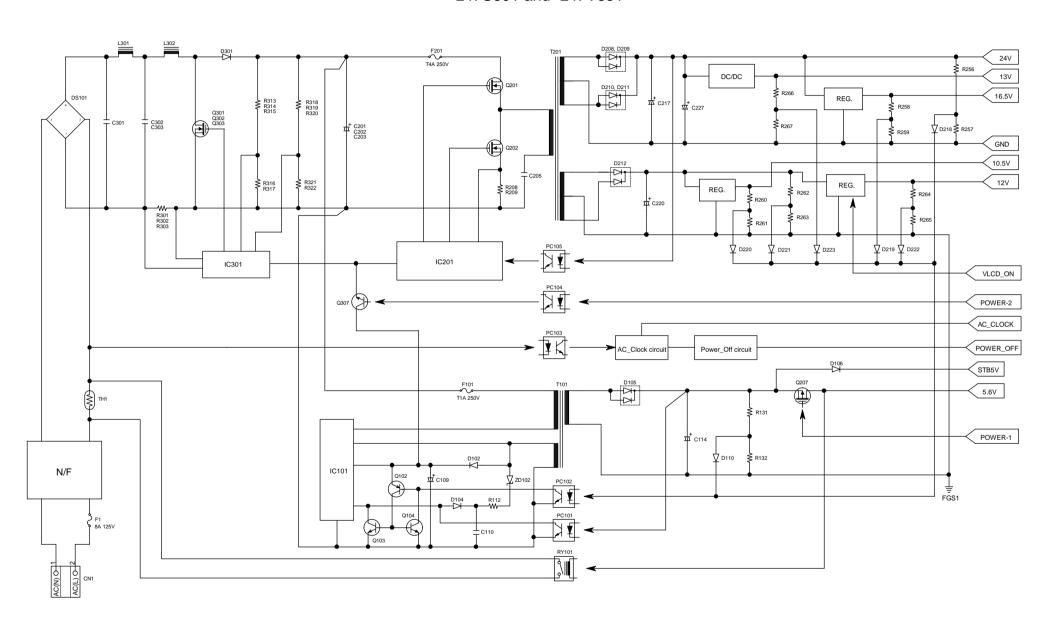
BLOCK DIAGRAM

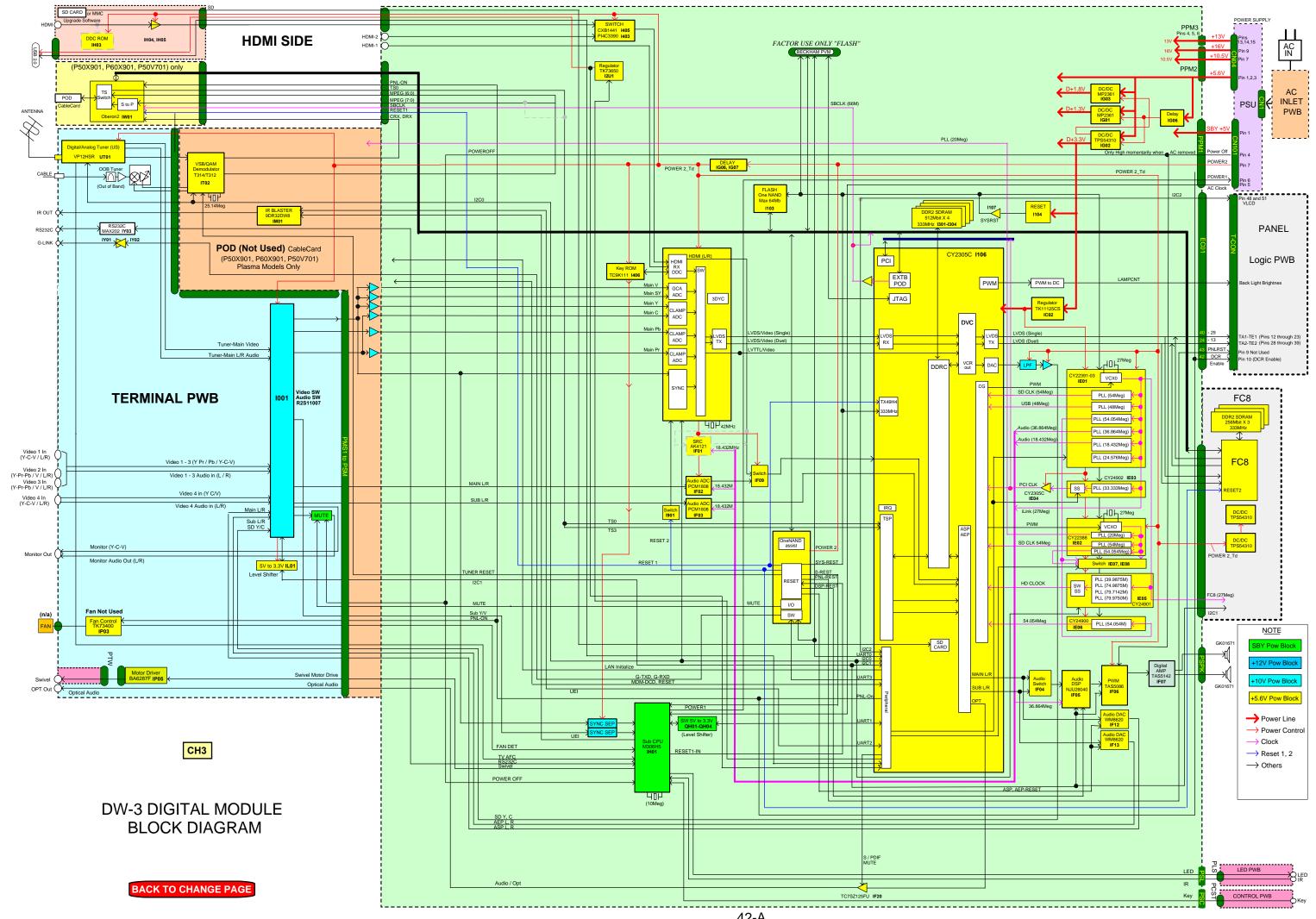
For L47V651 and L47S601



BLOCK DIAGRAM POWER SUPPLY BOARD

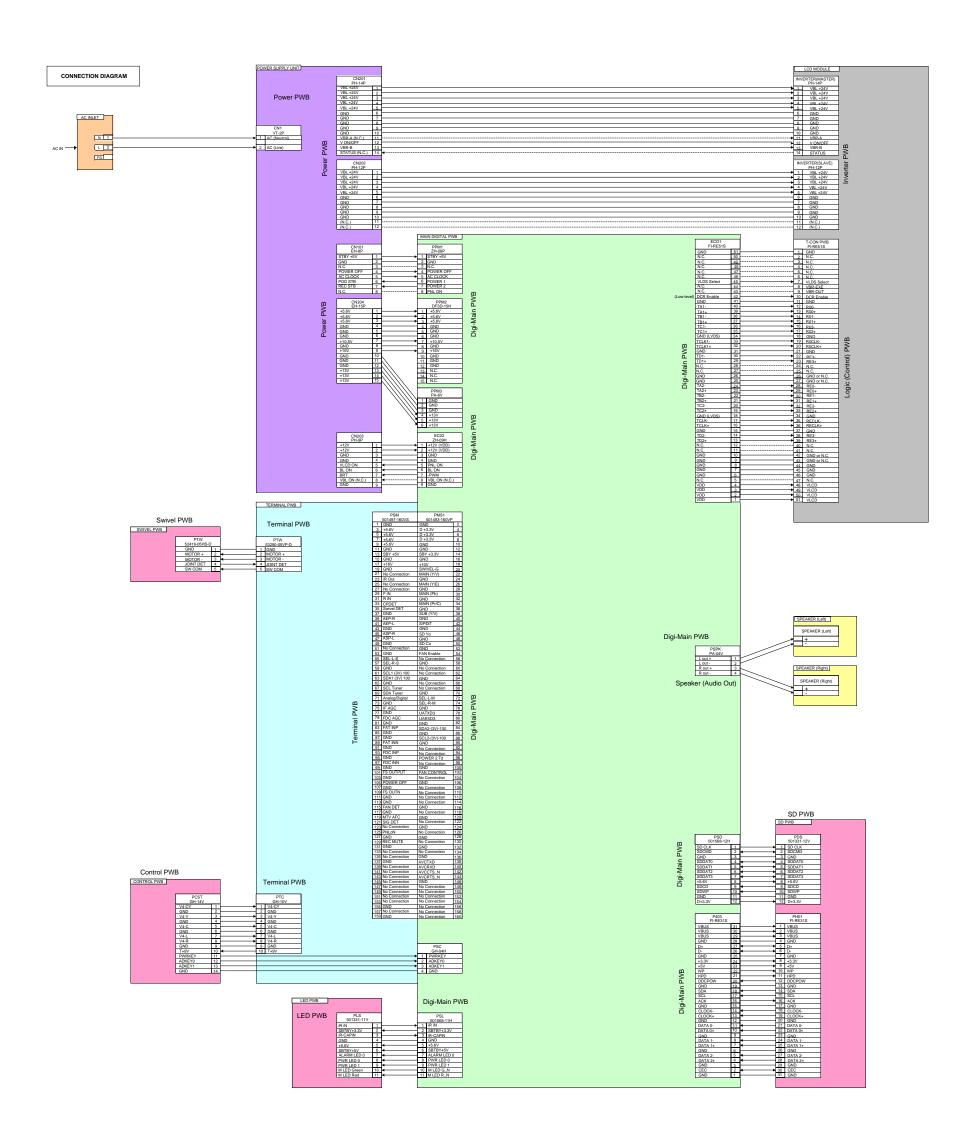
L47S601 and L47V651





CONNECTIONS DIAGRAM L47S601 and L47V651

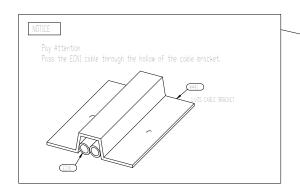
СНЗ

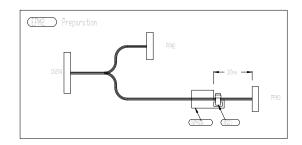


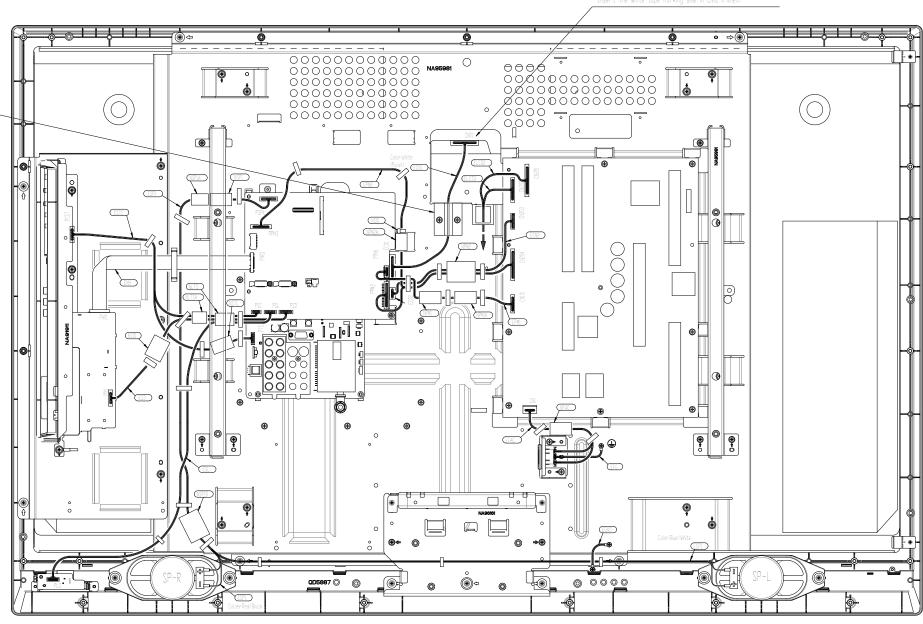


| Connector | Connector Plug Pin 1 | | Plua Pin 2 | |
|-------------|------------------------------|-------|--------------------------|--------------|
| None | Board or Location | Nane | Board or Location | Nane |
| ESTC | CONTROL | PCST | TERMINAL MAIN DIGITAL | 219 |
| ESL | MAIN DIGITAL | PSL | LED | PLS |
| ESI | MAIN DIGITAL | PSD | SD/HDMI | PDS |
| | MAIN DIGITAL | PSPK | SP-L/R | SP-L SP-R |
| EPM1 | POVER | CNIOI | MAIN DIGITAL | PPM1 |
| FPM2 | POVER | CN204 | MAIN DIGITAL | PPM2 |
| ECN1 | MAIN DIGITAL | EC01 | PANEL LIGGIC | PPM3 |
| ECN2 | MAIN DIGITAL | EC05 | POWER | CN203 |
| EFAC | POWER | CNI | AC INLET | - |
| EFG EGND | PANEL BASS FRONT SP METAL | GND | PANEL RASE | |
| EMH | MAIN DIGITAL | P403 | SU/HUMH | PH01 |
| ELC12 | POWER(BACK LIGHT) | CN201 | PANEL INVERTER(MASTER) | 11102 |
| | | | | |

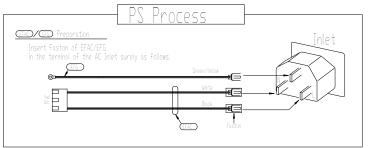
DW3 L47S601/V651 WIRING DIAGRAM

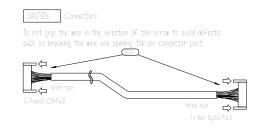






- This drawing shows the wiring diagram for 47"LCD models. The connection and wire styling are in the figure.
- 2. This drawing shows the rear view of the TV set.

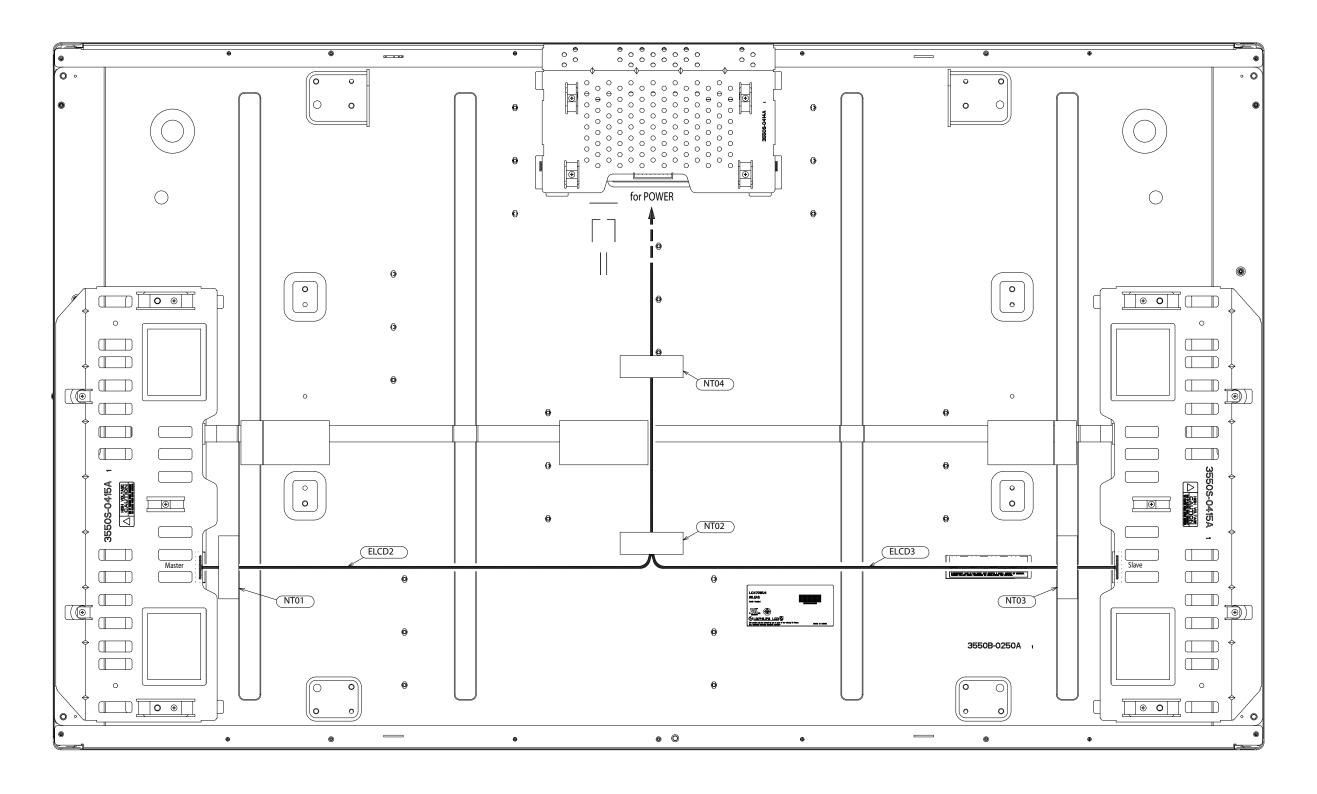




uring the connecting operation, push corefully both sides of the housing latch terminal of the insert direction in order to avoid breaking it.

ush straightforward in the direction where the

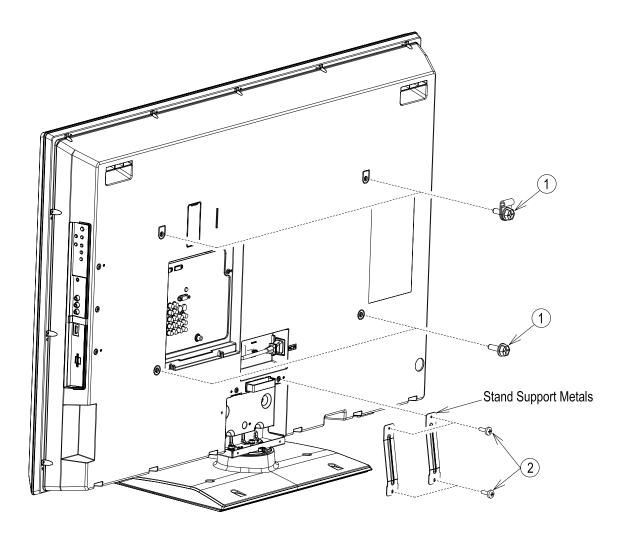
DW3 L47S601/V651 WIRING DIAGRAM



NT01~04 : NITTO TAPE NO. 5 W20 (P#9449545) L = 60mm

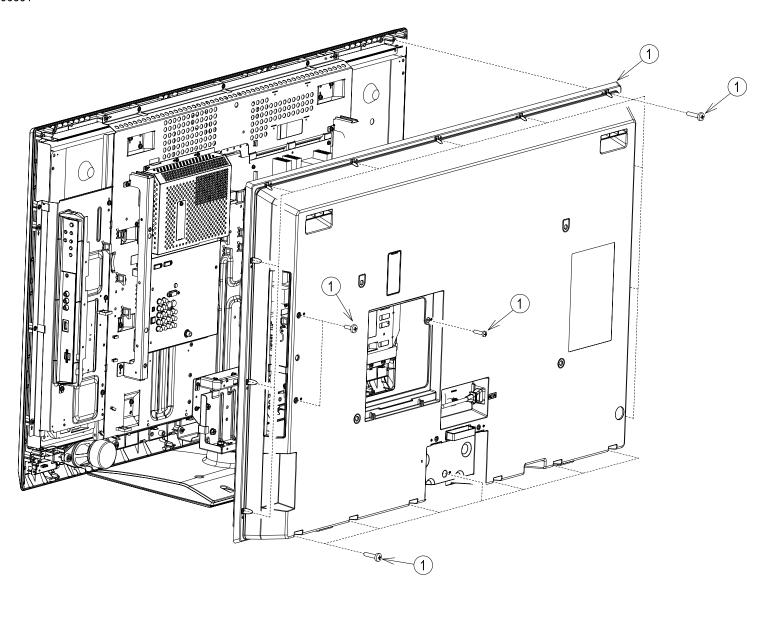
BACK COVER 1

- ① Remove Screw M3M 6*18 P#MJ03693(4 Pcs.) M6 Cable Clamp(2 Pcs.)
- ② Remove Screw M3D 4*10 P#MJ03727(4 Pcs.) Stand Support Metals



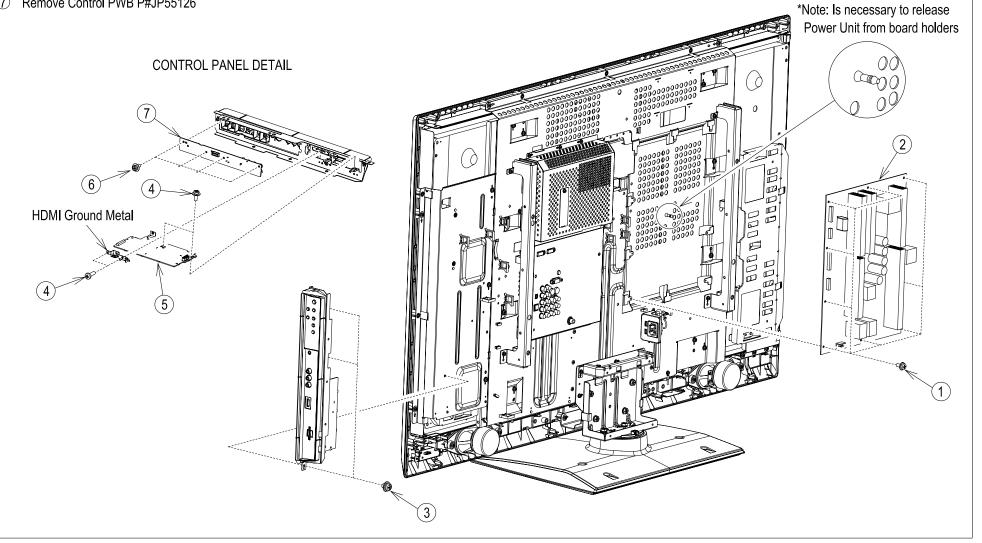
BACK COVER 2

- ① Remove Screw T2D 4*16 P#MJ03568(16 Pcs.) Screw M3D 4*10 P#MJ03727(3 Pcs.) Screw M3D 3*10 P#MJ03649
- 2 Remove Back Cover P#QD58881



POWER UNIT, CONTROL PANEL ASS'Y

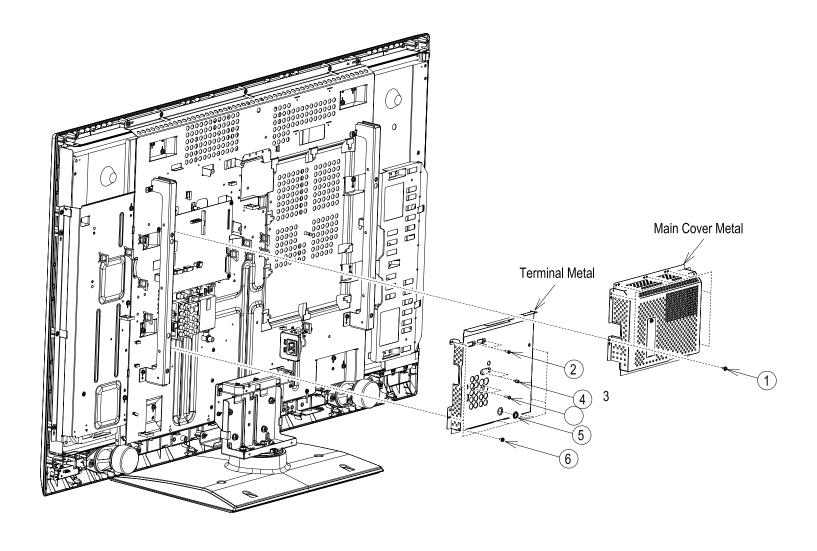
- ① Remove Screw M3D 3*8 P#MJ03646(7 Pcs.) Screw M3E 3*8 P#MJ03467(2 Pcs.)
- Remove Power unit P#HA02471
- Remove Screw M3M 4*6 P#MJ04049(3 Pcs.) Control Panel Ass'y
- (4) Remove Screw T2B 3*10 P#MJ03733 Screw M3E 3*8 P#MJ03467(3 Pcs.)
- Remove SD PWB P#JP55126
- Remove Screw T2B 3*10 P#MJ3733(2 Pcs.) Screw M3E 3*8 P#MJ03467(2 Pcs.)
- Remove Control PWB P#JP55126



TERMINAL PWB, MAIN PWB 1

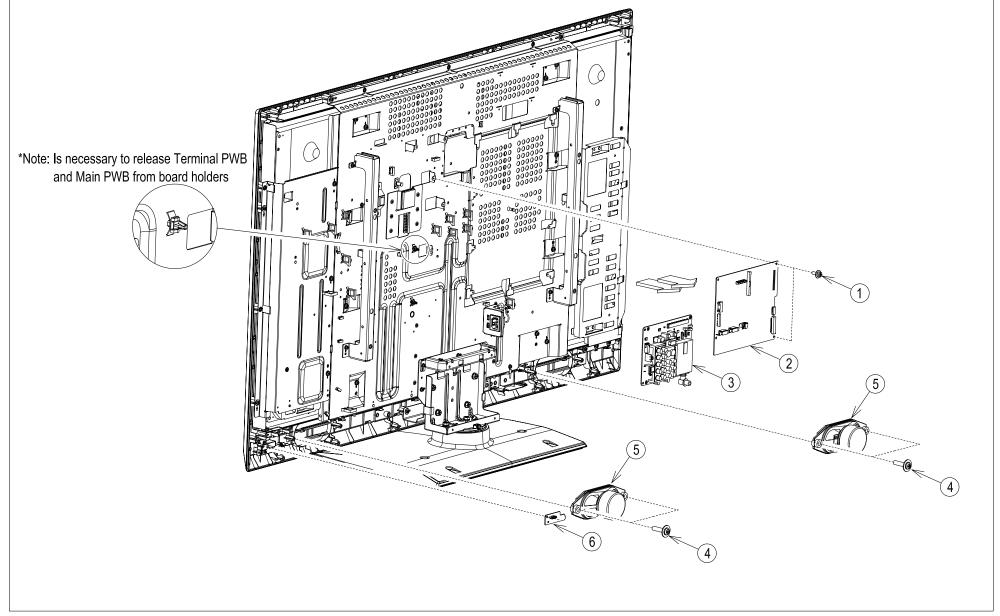
- ① Remove Screw M3E 3*8 P#MJ03467(7 Pcs.)

 Main Shield Metal
- 2) Remove Screw M3M 3*6 P#MJ03594(2 Pcs.)
- ③ Remove Screw T2B 3*10 P#MJ03733(2 Pcs.)
- 4 Remove D-Sub Screw P#MJ03351(2 Pcs.)
- (5) Remove Tuner Nut P#MK01431/Washer P#MK01511
- 6 Remove Screw M3E 3*8 P#MJ3467(7 Pcs.)



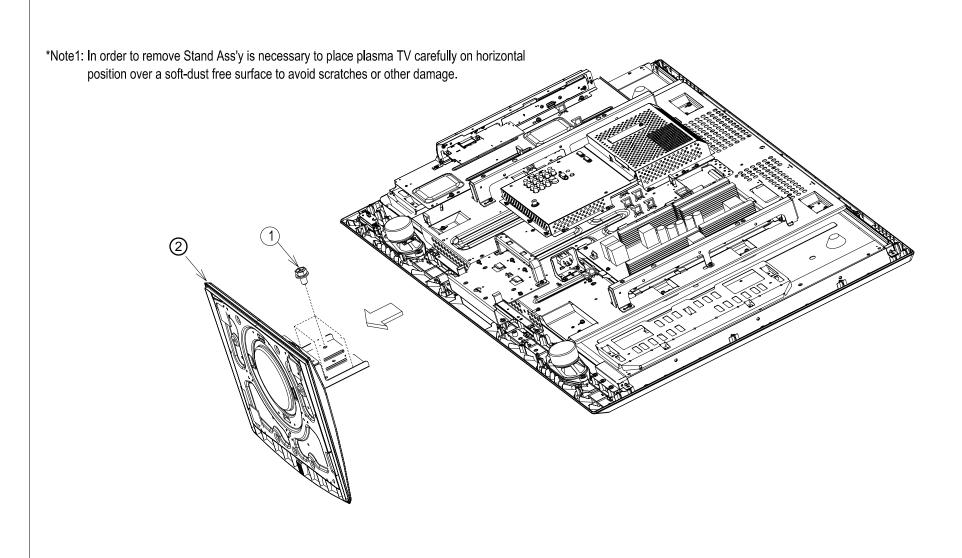
TERMINAL PWB, MAIN PWB 2, Speakers

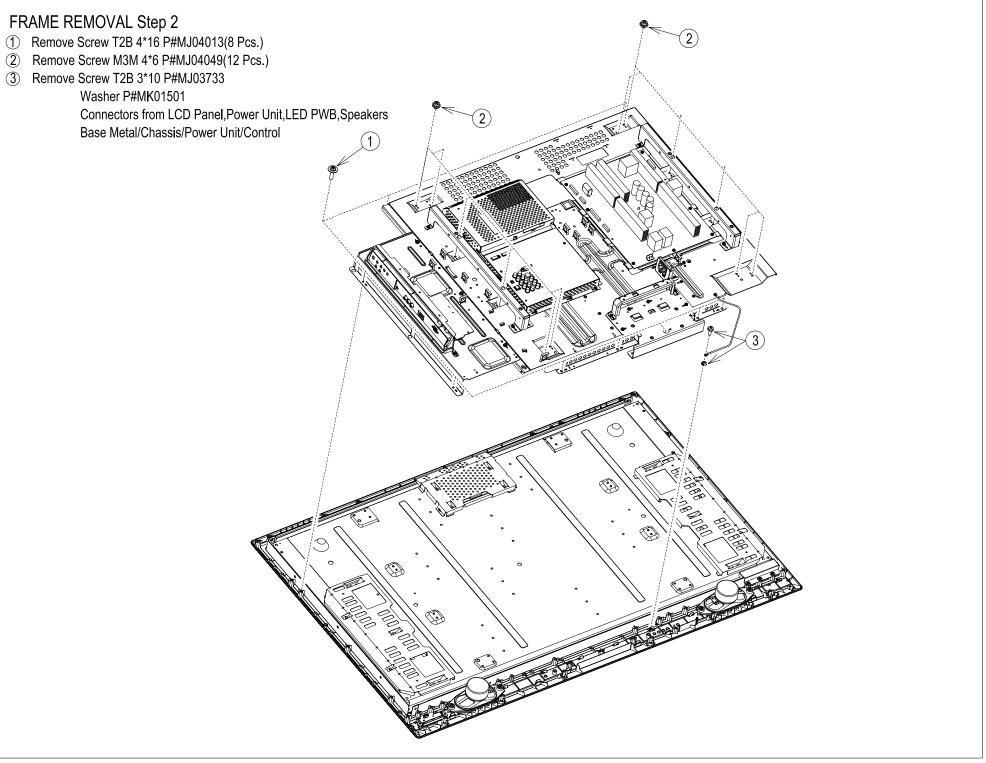
- ① Remove Screw M3E 3*8 P#MJ03467(2 Pcs.)
- (2) Remove Main PWB P#JP55157
- ③ Remove Terminal PWB P#JP55126
- 4 Remove Screw T2B4*16 P#MJ04013(4 Pcs.)
- ⑤ Remove Speakers P#GK01671(2 Pcs.)
- 6 Remove LED PWB P#JP55126

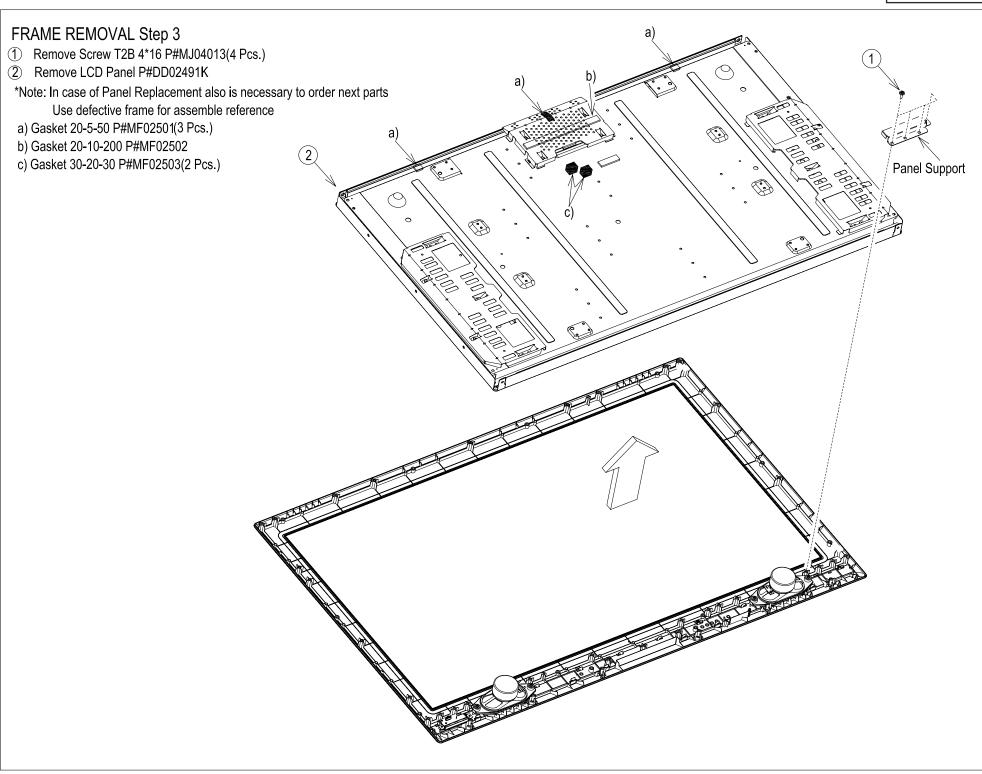


FRAME REMOVAL Step 1

- ① Remove Screw M3M 6*18 P#MJ03693(4 Pcs.)
 - ② Stand Base QJ04573



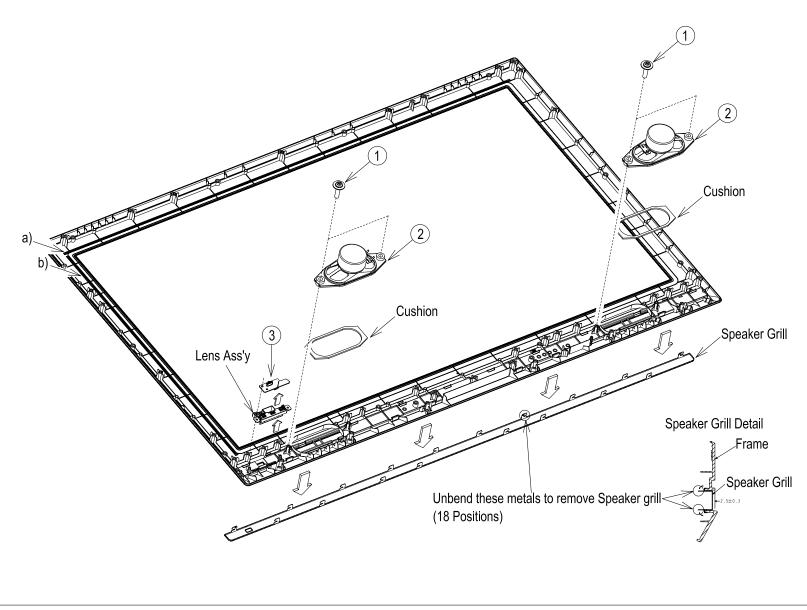




FRAME REMOVAL Step 4

- ① Remove Screw T2B 4*16 P#MJ04013(4 Pcs.)
- 2 Remove Speakers P# GK01671(2 Pcs.)
- 3) Remove LED PWB P#JP55126

Lens Ass'y Speaker Grill

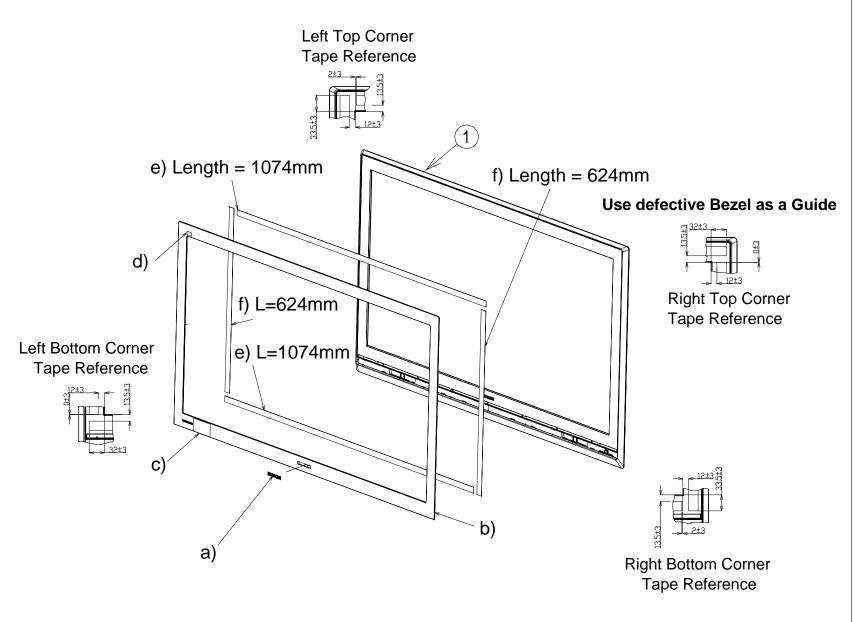


FRAME REMOVAL Step 5

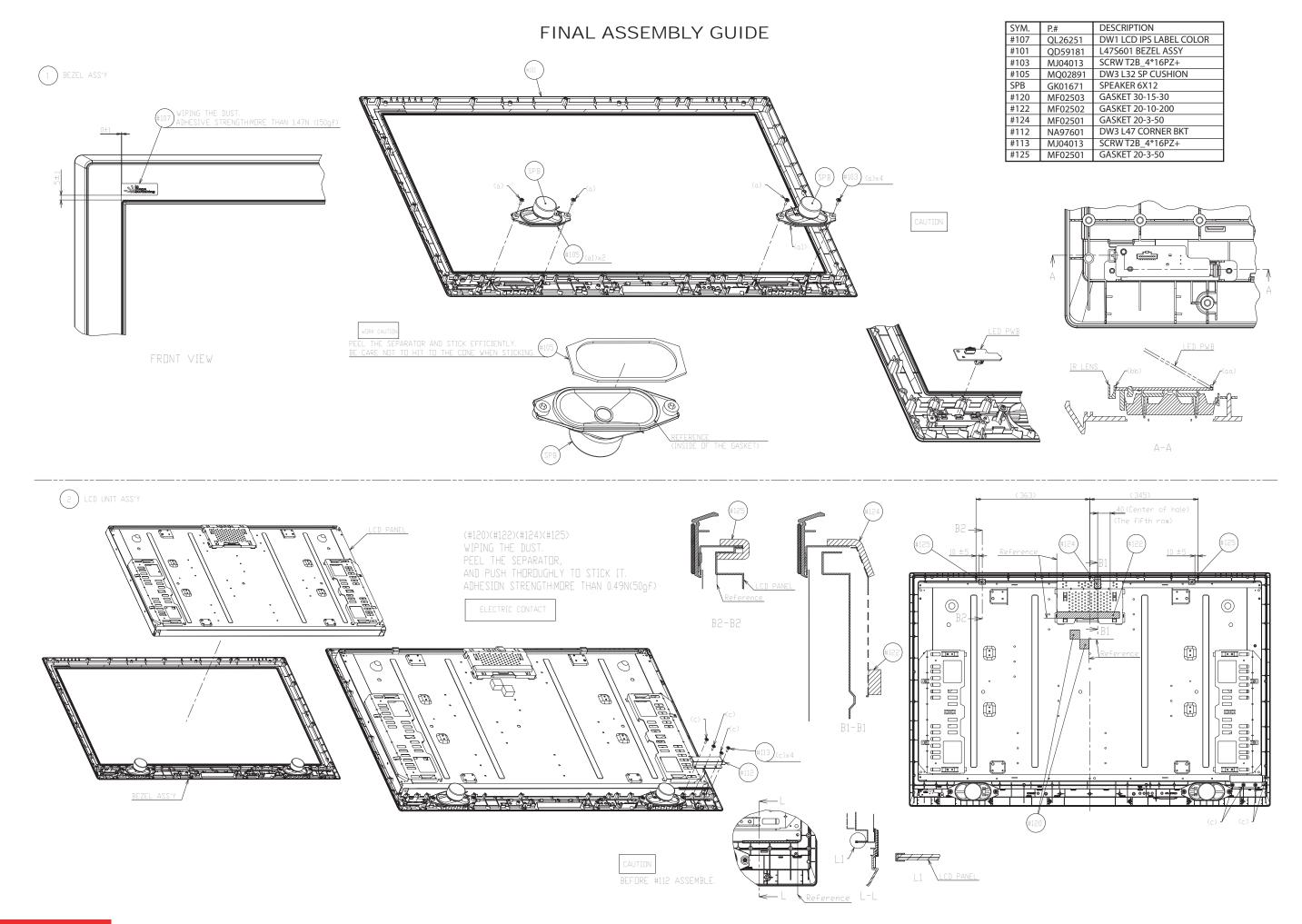
1. Remove Screen Frame (Bezel) P# QD61784 (Frame comes as a complete assembly). Included in the assembly: a), b), c), d), e) and f).



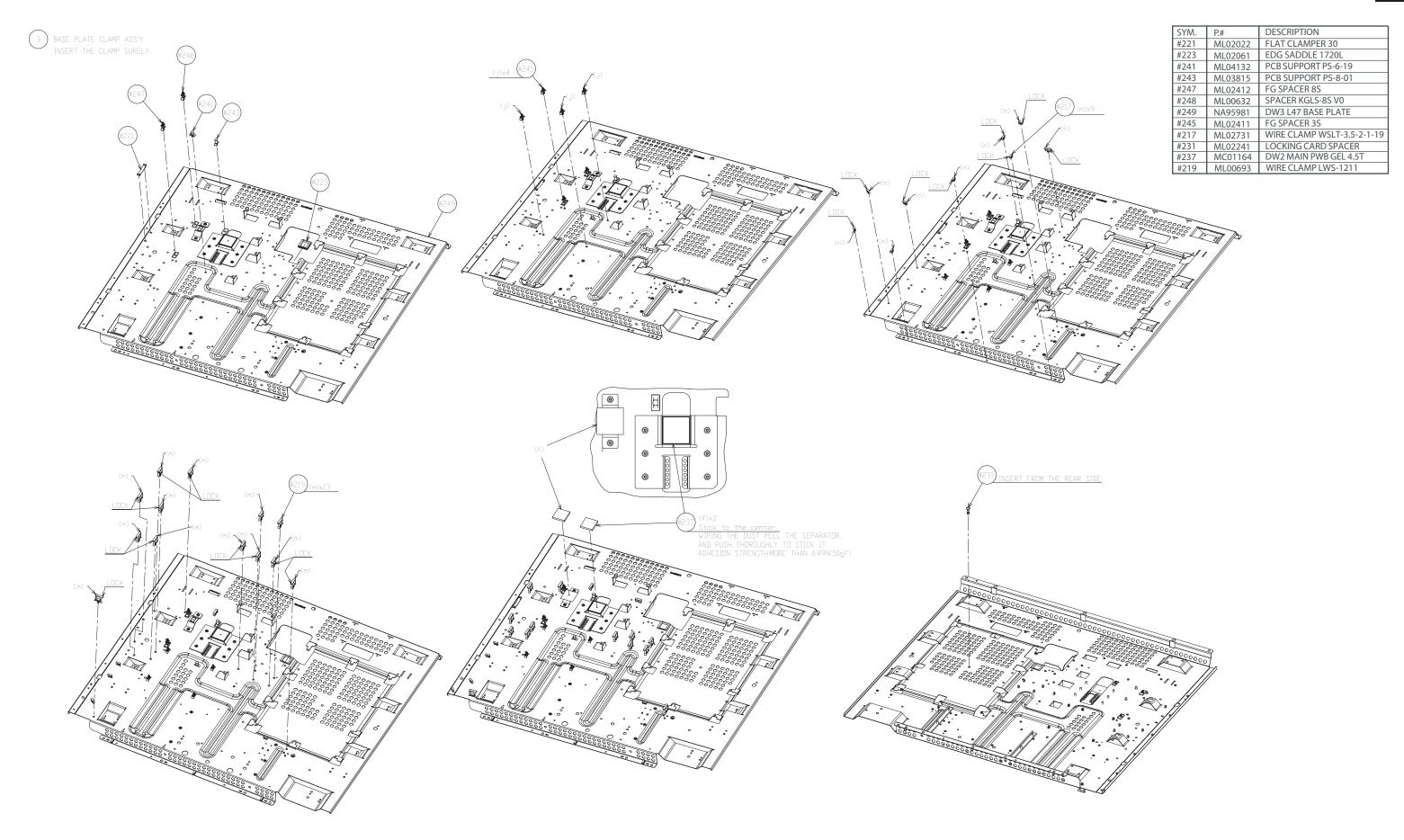
Screen Frame (Bezel) P# QD61784 (Frame comes as a complete assembly).



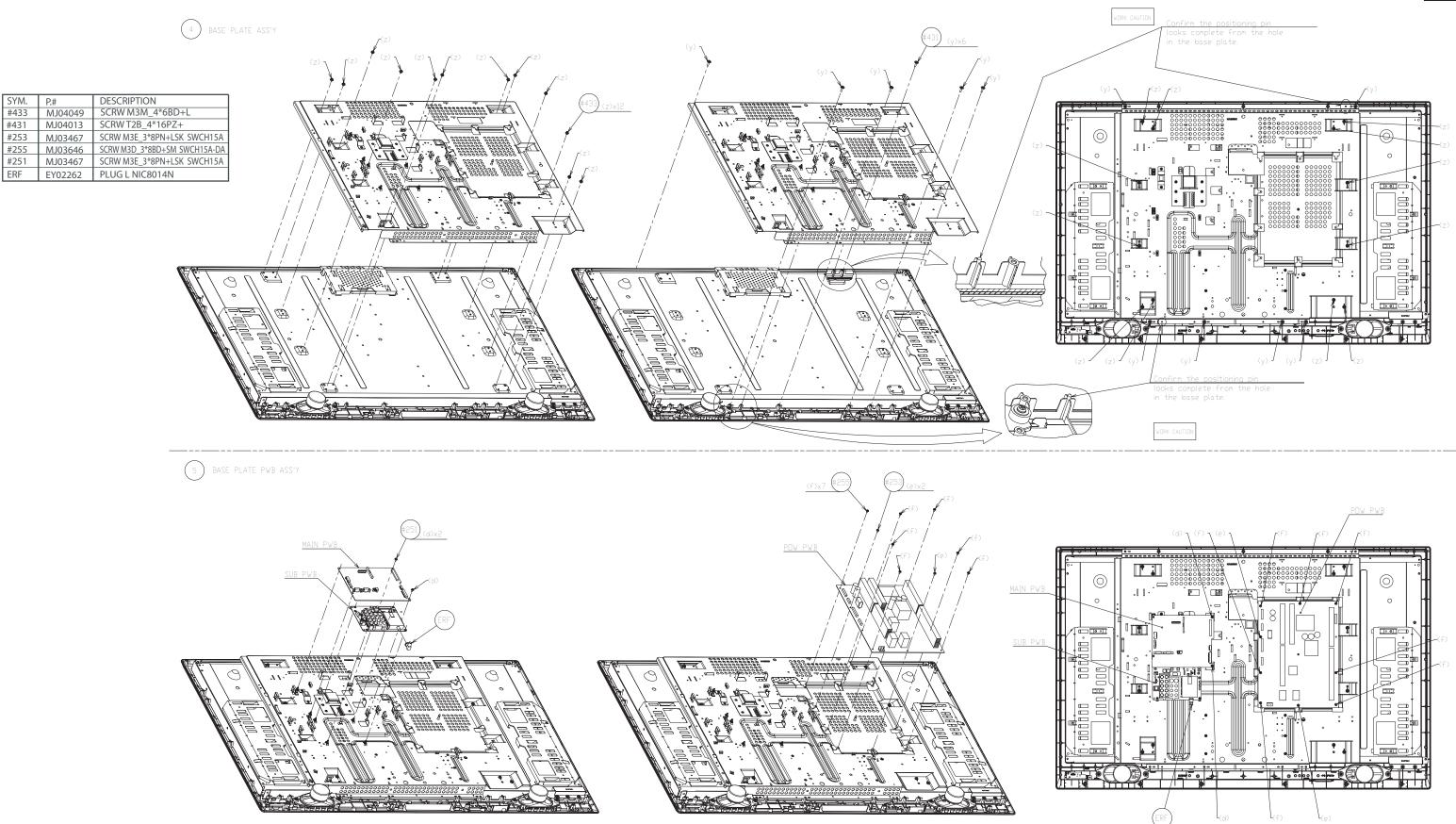
DW3G



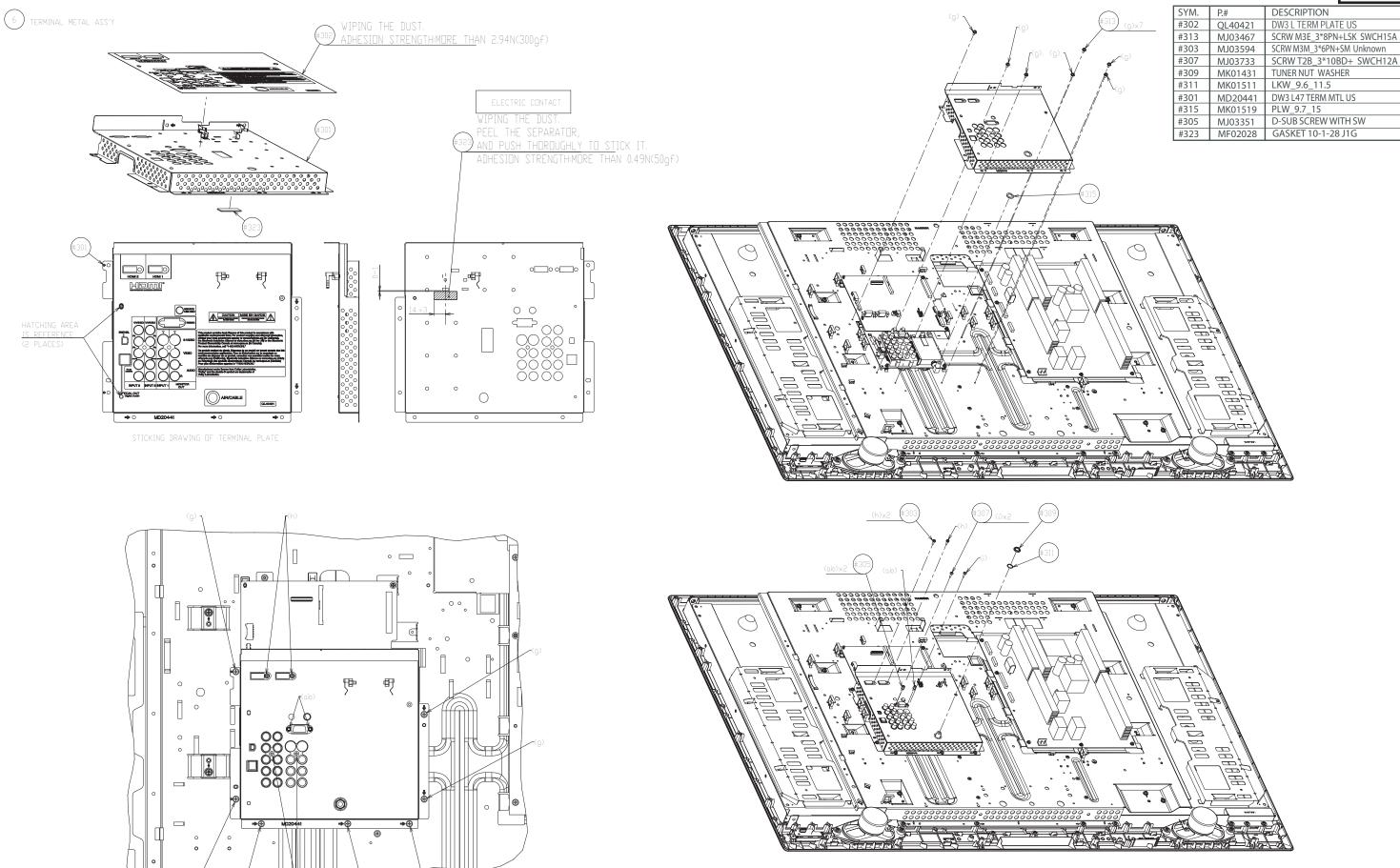


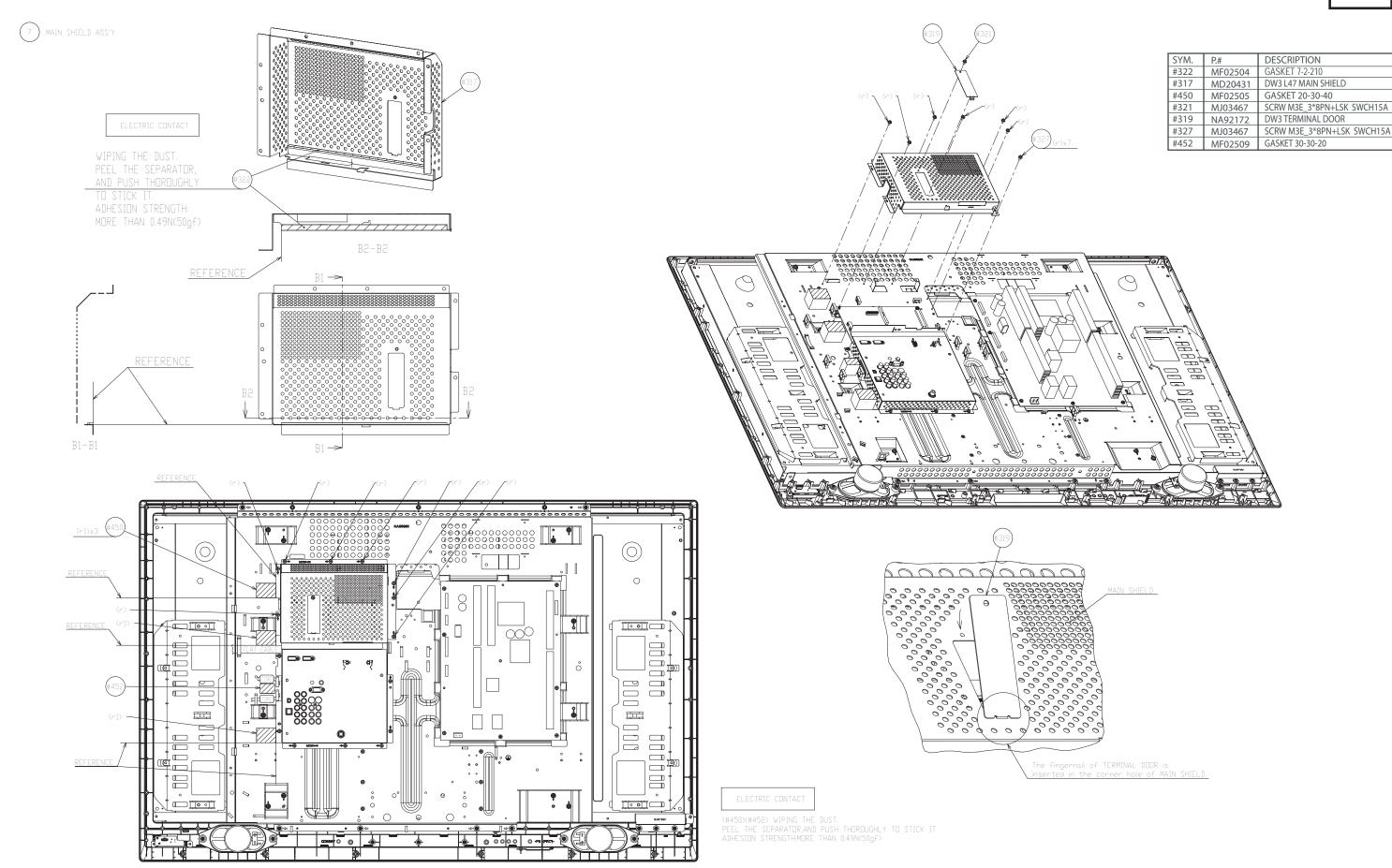






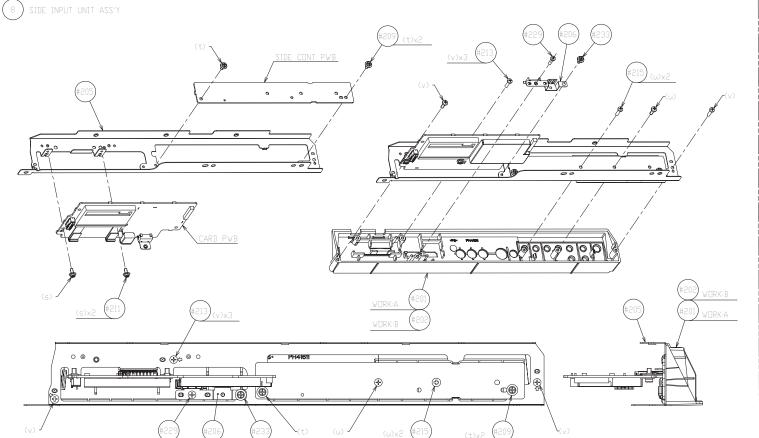


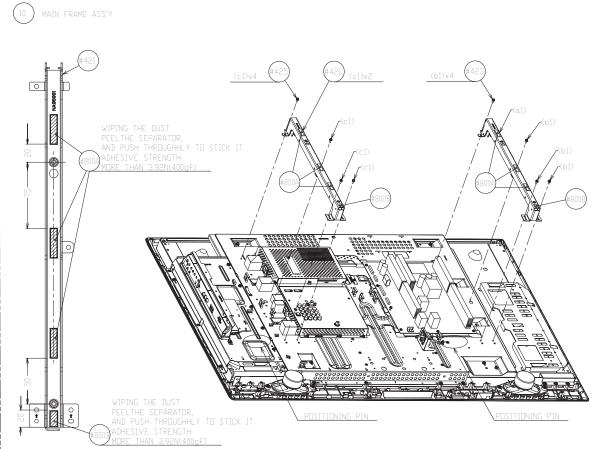


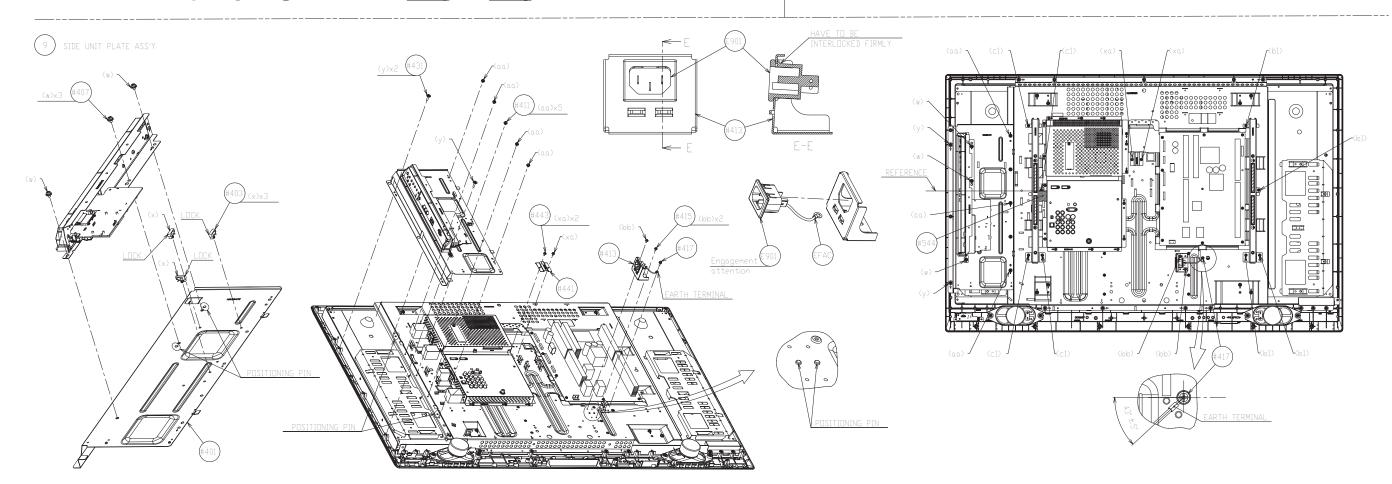




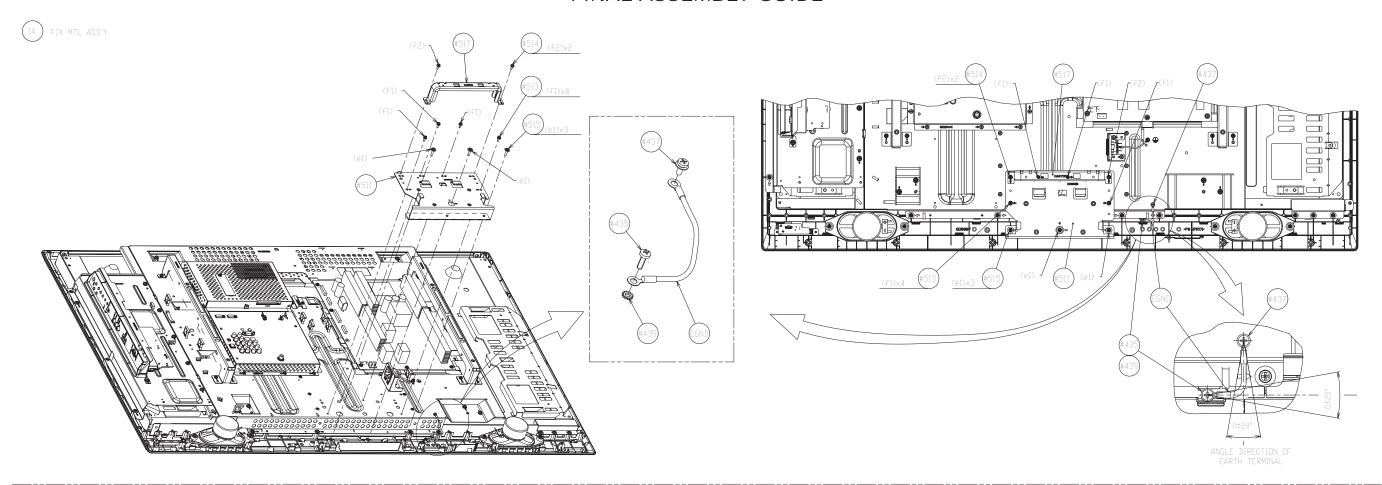




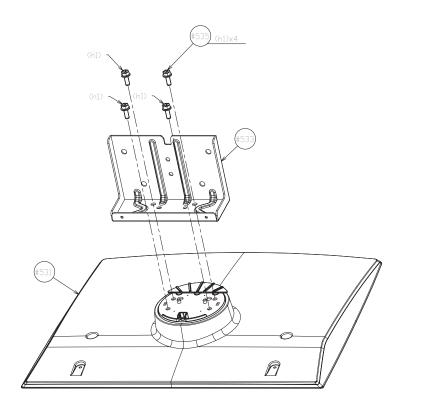


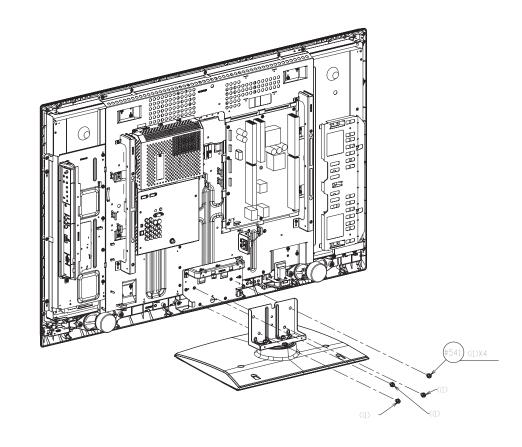












| P.# | DESCRIPTION |
|---------|---|
| NA96161 | DW3 L47 STAND FIX |
| NA97121 | DW3 L47 ST SUPPORT2 |
| MJ04053 | SCRW M3S 4*16PN+SM |
| MJ04061 | SCRW M3C 4*10PN+LS |
| MJ04013 | SCRW T2B_4*16PZ+ |
| MJ03467 | SCRW M3E_3*8PN+LSK SWCH15A |
| MJ03733 | SCRW T2B_3*10BD+ SWCH12A |
| EF24041 | CO-01T-T0R0-101 |
| MK01501 | LKW_3.2_6.5 |
| MJ03693 | SCRW M3M_6*18HX+SM SWRM12A |
| NA95951 | DW3 L47 STAND METAL |
| QJ04573 | DW3 L STAND ASSY NA |
| MJ03693 | SCRW M3M_6*18HX+SM SWRM12A |
| | NA96161 NA97121 MJ04053 MJ04061 MJ03467 MJ03733 EF24041 MK01501 MJ03693 NA95951 QJ04573 |

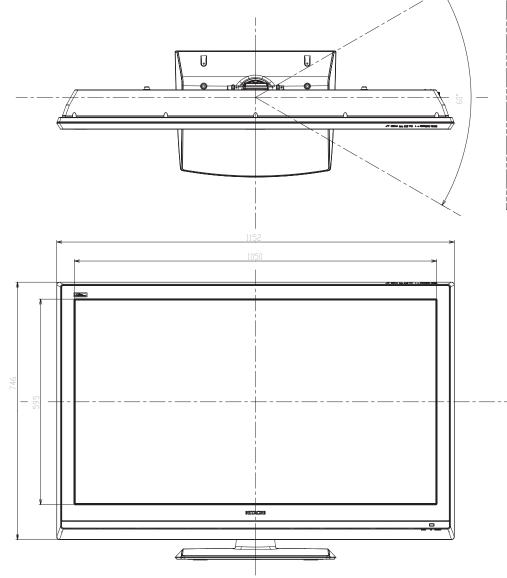
| DW3G |
|------|
|------|

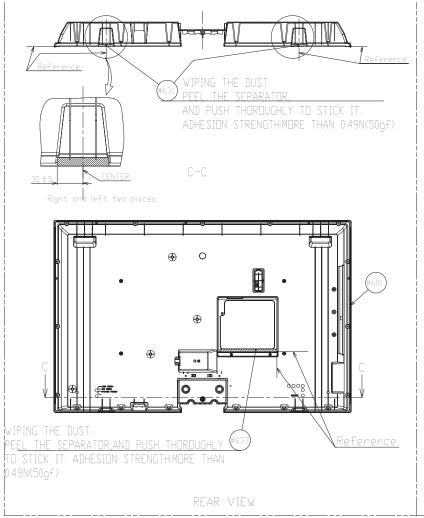
SYM. DESCRIPTION P.# #631 MS02066 DW3 L HIMELON 60 #601 DW3 L47 BACK COVER QD58881 #633 DW3 L HIMELON 10X220X1 MS02069 #623 WIRE CLAMP 1564 ML03381 #621 NA95961 DW3 L47 ST SUPPORT #627 ML02253 CKS CLAMP 10L(SUB) #625 MJ03727 SCRW M3D_4*10BD+ SWCH18A #605 MJ03568 SCRW T2D_4*16BD+ SWCH16-18A #607 M6 CABLE CLAMP HX ML02112 #611 MJ03727 SCRW M3D_4*10BD+ SWCH18A #603 PH42131 DW3 L BECKHAM COVER #609 MJ03693 SCRW M3M_6*18HX+SM SWRM12A #613 MJ03649 SCRW M3D_3*10BD+SM SWCH15A-DA

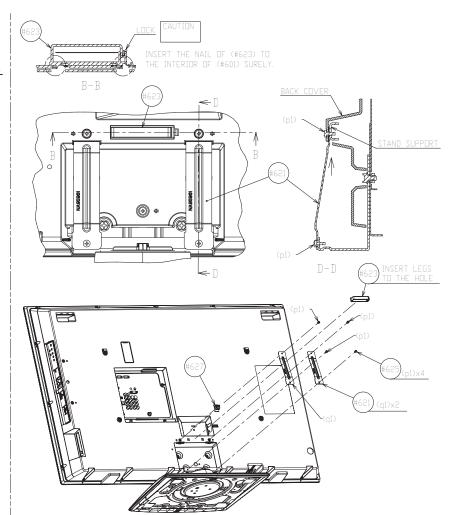
8P PLUG CORDE, L=470MM

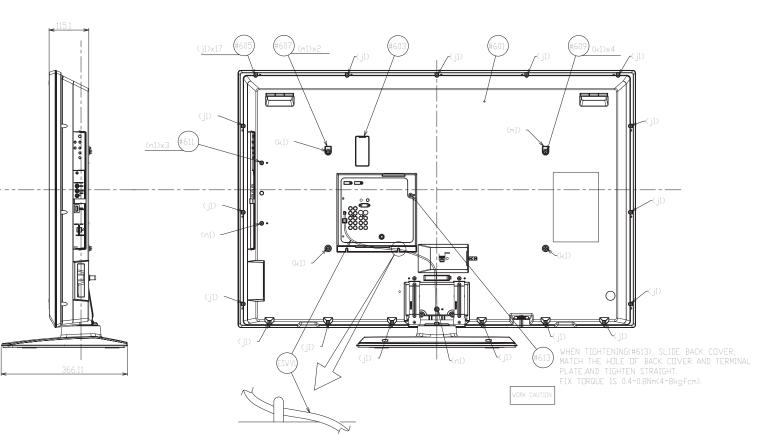
ESWVL EW08434

16 OVERALL ASS'Y





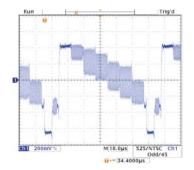




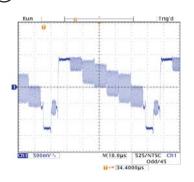
WAVEFORMS

Numbers inside circle correspond to locations shown in the circuit diagram. Waveforms taken using a Color Bar signal with H sync 31 khz and V. sync 60 hz and a X10 probe. Signal amplitude and DC level shown at Δ and @ respectively.

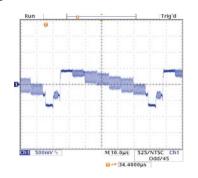
1 UT01 Pin 13 TunerM_CV (out)



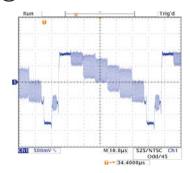
2 JY02 Pin 4 Monitor-Out



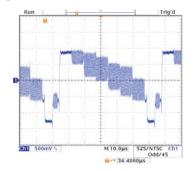
(3) I001 Pin 26 TunerM_CV (in)



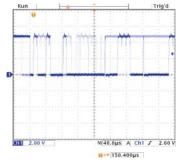
(4) 1001 Pin 28 MAIN_Y/V (out)



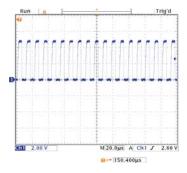
(5) I001 Pin 32 SUB_Y/V (out)



(6) 1001 Pin 44 I²C DATA



(7) 1001 Pin 45 I²C CLK



DC VOLTAGES

| Symbol | Pin No. | Voltage |
|--------|---------|---------|
| CN101 | 1 | 5.4 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 3.3 |
| | 6 | 3.3 |
| | 7 | 5.3 |
| | 8 | 3.3 |

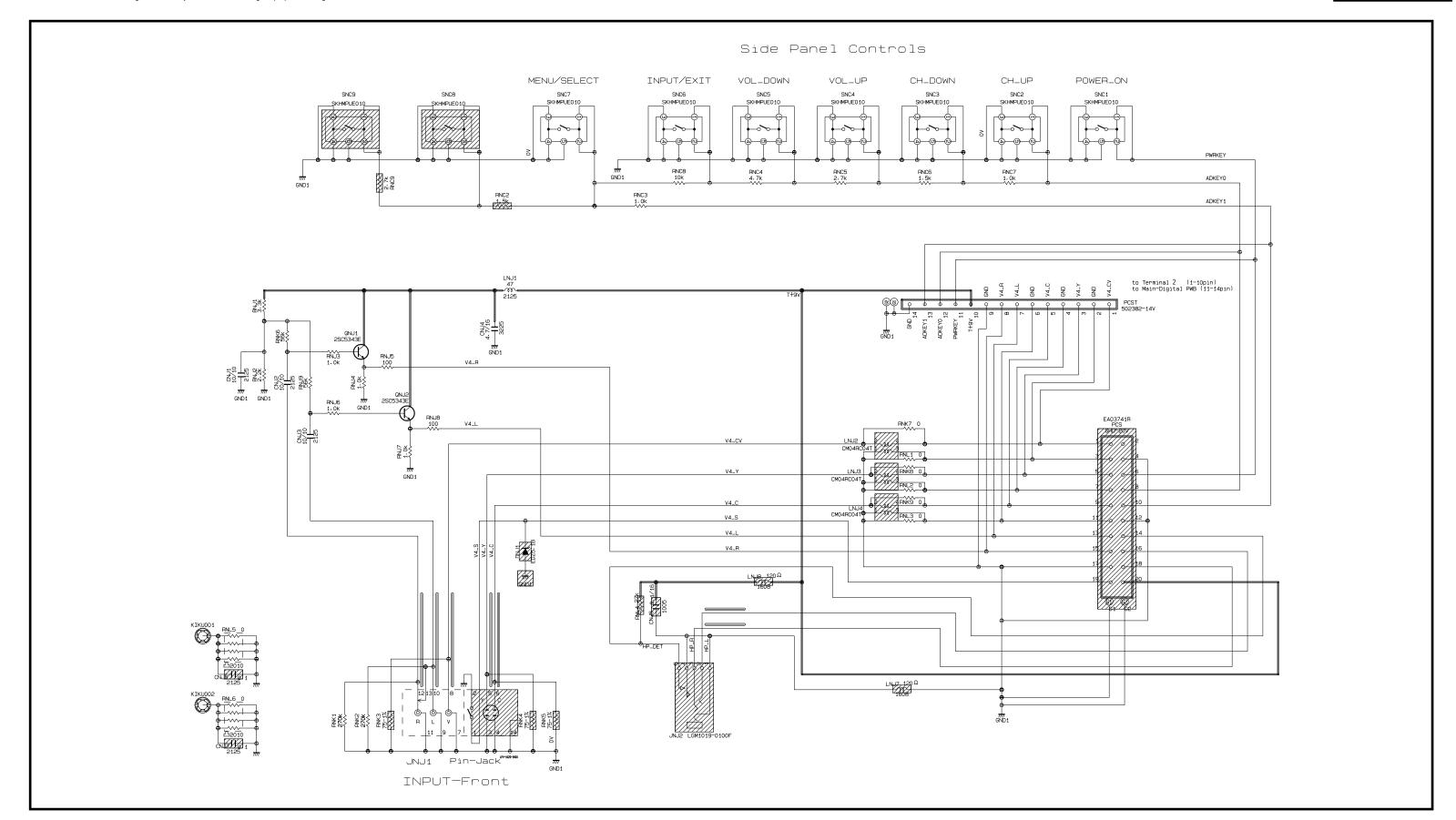
| Symbol | Pin No. | Voltage |
|--------|---------|---------|
| CN201 | 1 | 23.8 |
| | 2 | 23.8 |
| | 3 | 23.8 |
| | 4 | 23.8 |
| | 5 | 23.8 |
| | 6 | 0.0 |
| | 7 | 0.0 |
| | 8 | 0.0 |
| | 9 | 0.0 |
| | 10 | 0.0 |
| | 11 | 1.6 |
| | 12 | 3.3 |
| | 13 | 0~3.3 |
| | 14 | 3.3 |

| Symbol | Pin No. | Voltage |
|--------|---------|---------|
| CN202 | 1 | 23.8 |
| | 2 | 23.8 |
| | 3 | 23.8 |
| | 4 | 23.8 |
| | 5 | 23.8 |
| | 6 | 0.0 |
| | 7 | 0.0 |
| | 8 | 0.0 |
| | 9 | 0.0 |
| | 10 | 0.0 |
| | 11 | 1.6 |
| | 12 | 0.0 |

| Symbol | Pin No. | Voltage |
|--------|---------|---------|
| CN203 | 1 | 12.1 |
| | 2 | 12.1 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 3.3 |
| | 6 | 3.3 |
| | 7 | 0~3.3 |
| | 8 | 3.3 |
| | 9 | 0.0 |

| Symbol | Pin No. | Voltage |
|--------|---------|---------|
| CN204 | 1 | 5.6 |
| | 2 | 5.6 |
| | 3 | 5.6 |
| | 4 | 0.0 |
| | 5 | 0.0 |
| | 6 | 0.0 |
| | 7 | 10.5 |
| | 8 | 0.0 |
| | 9 | 16.3 |
| | 10 | 0.0 |
| | 11 | 0.0 |
| | 12 | 0.0 |
| | 13 | 13.4 |
| | 14 | 13.4 |
| | 15 | 13.4 |

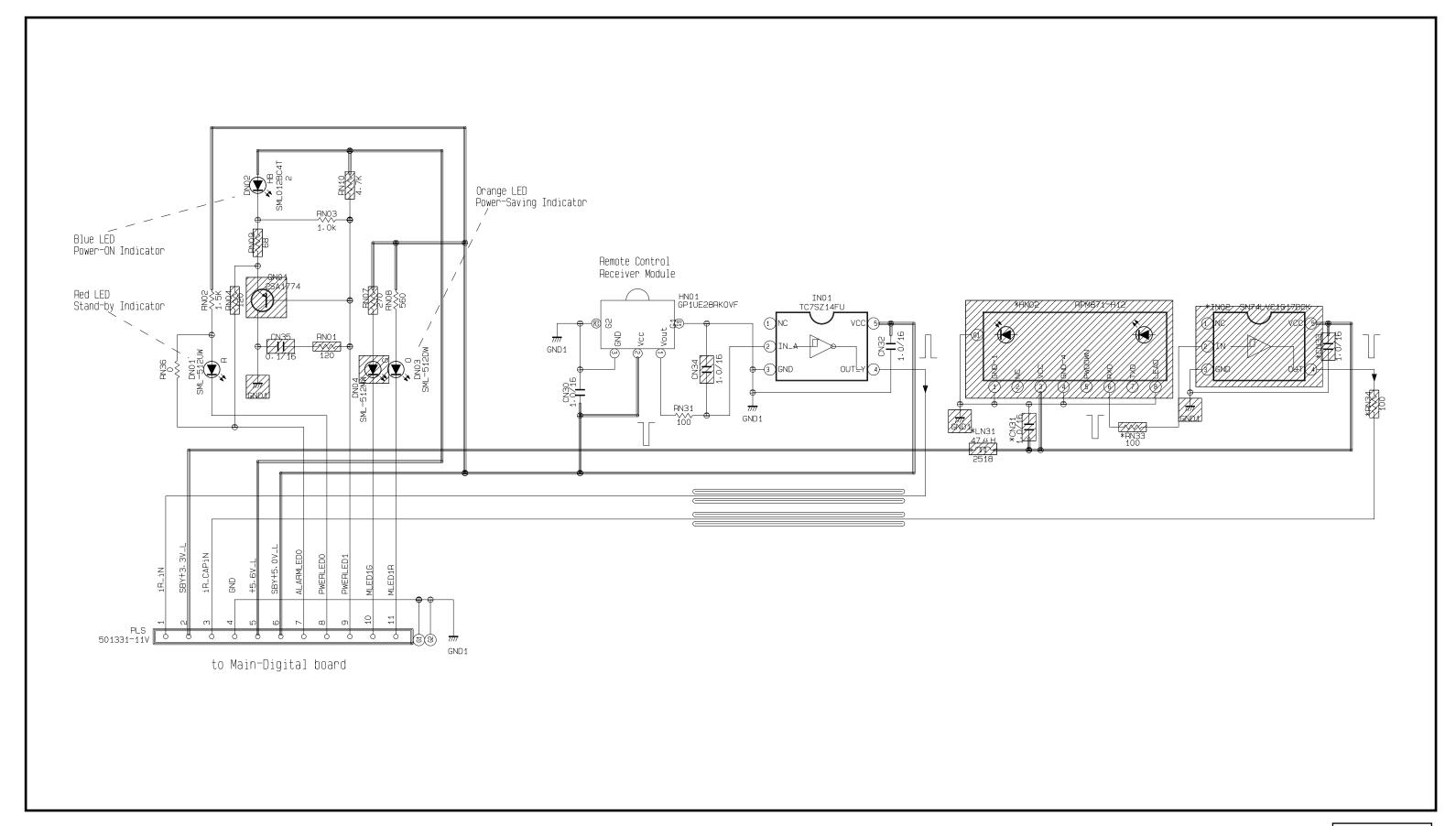
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



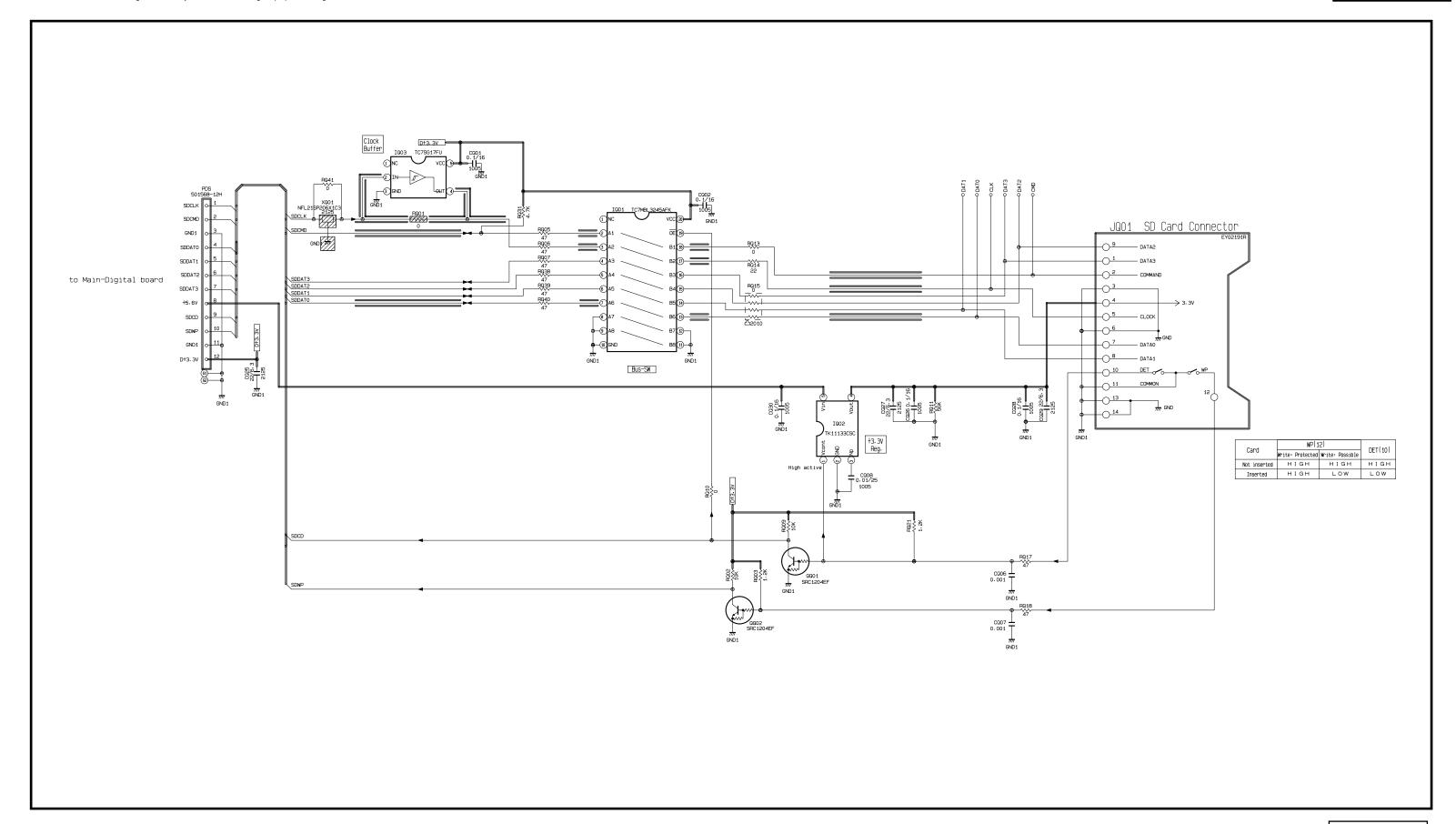
Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

CONTROL

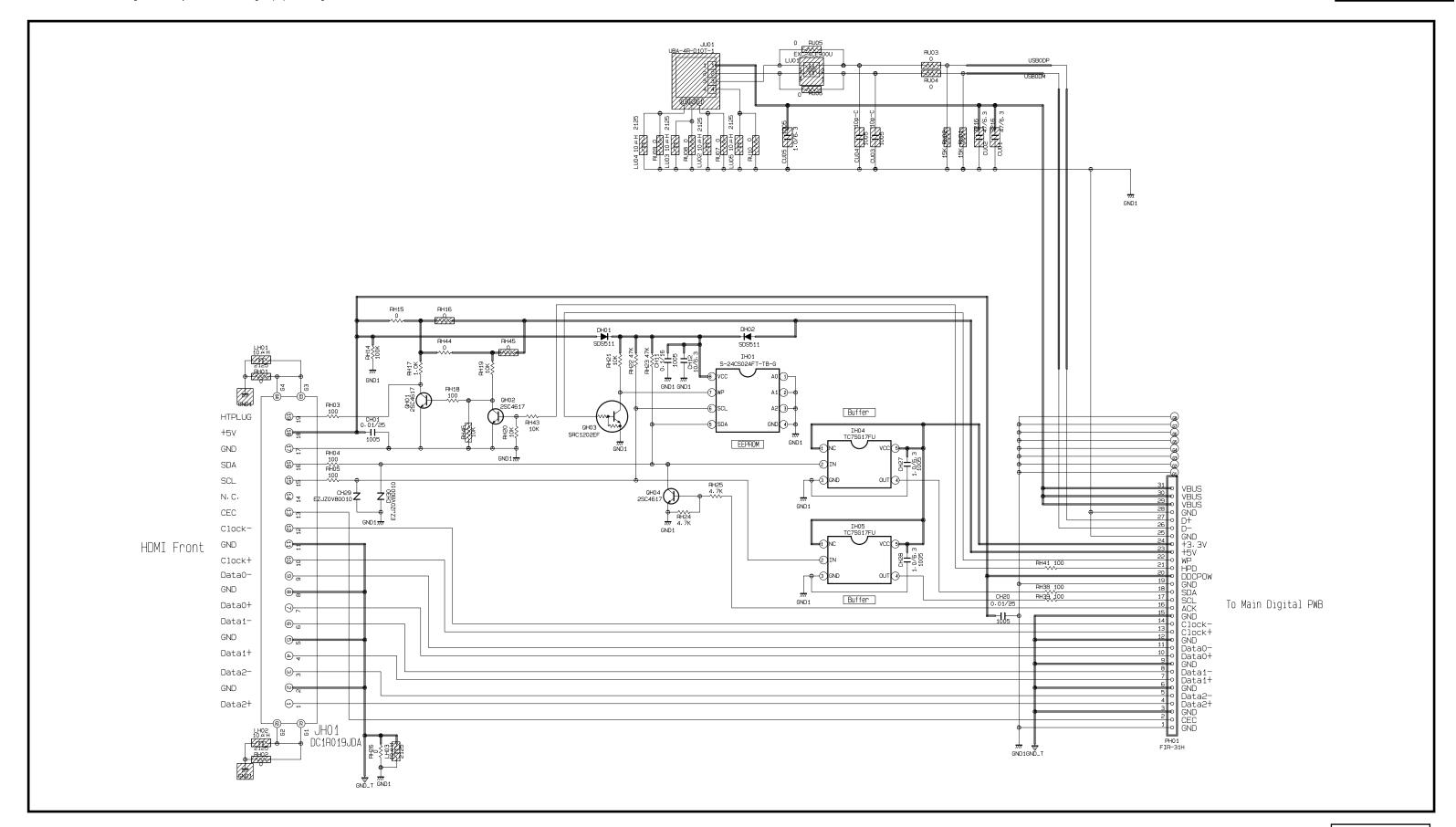
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

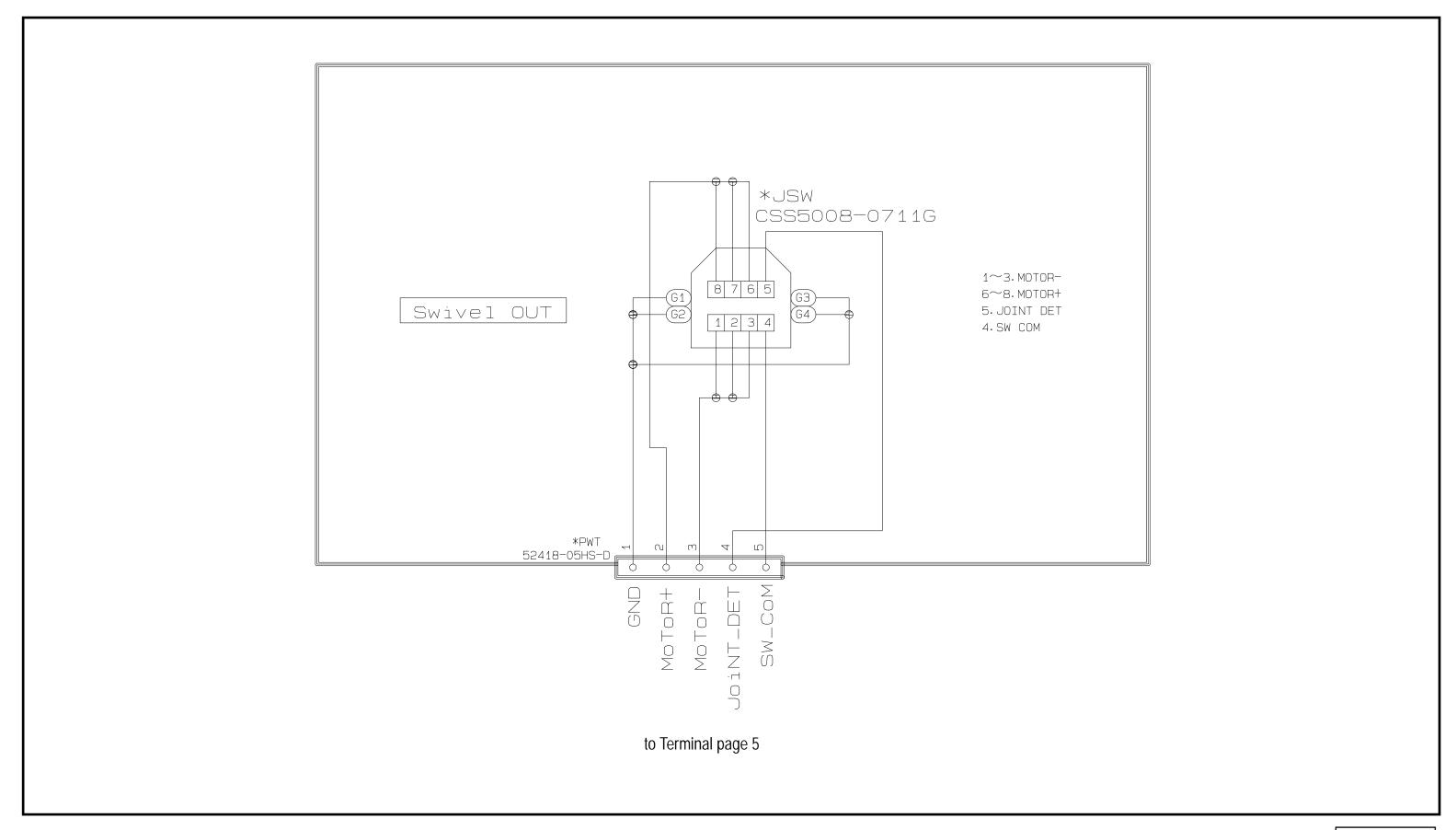


PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

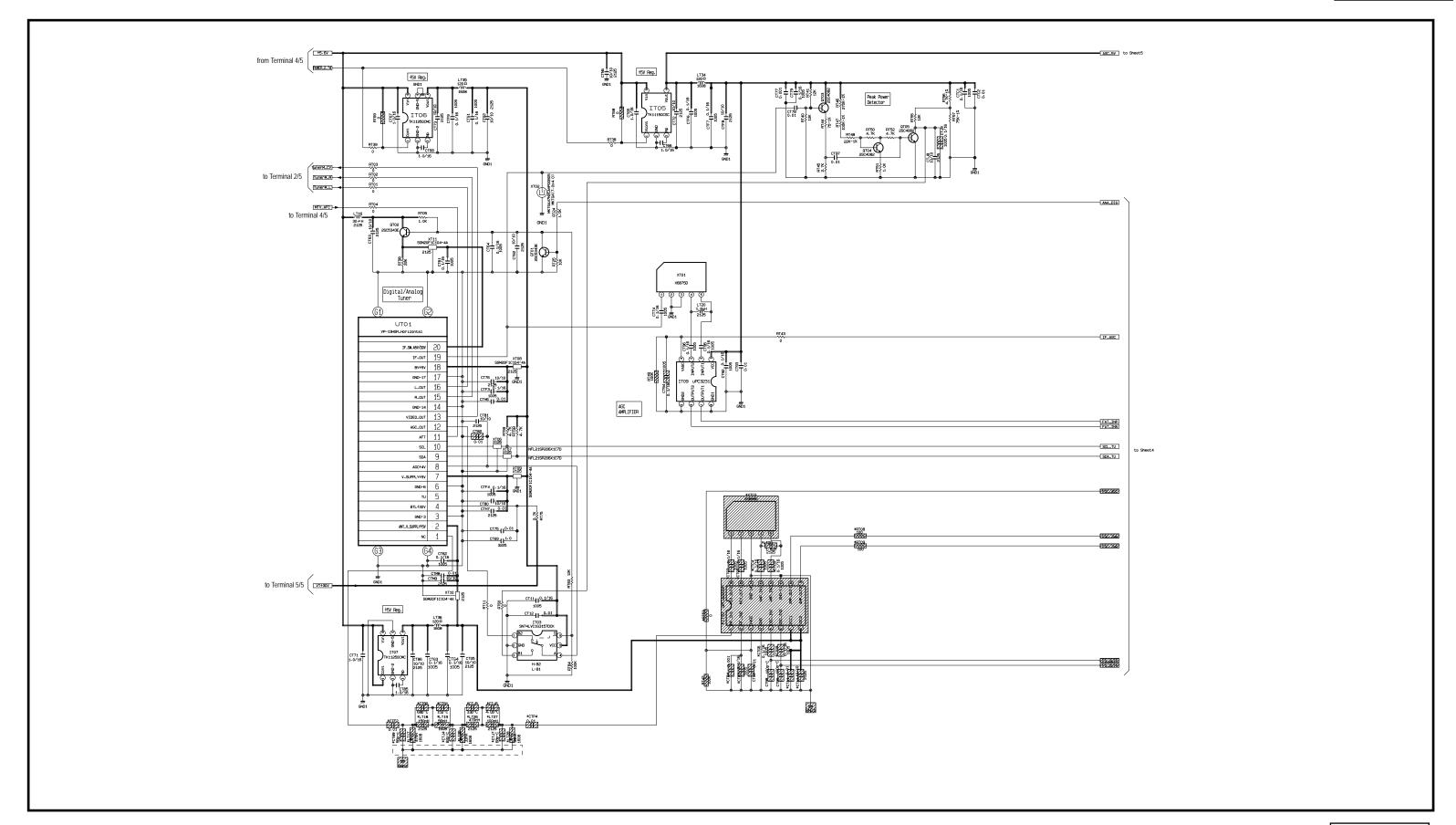
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

Swivel

PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

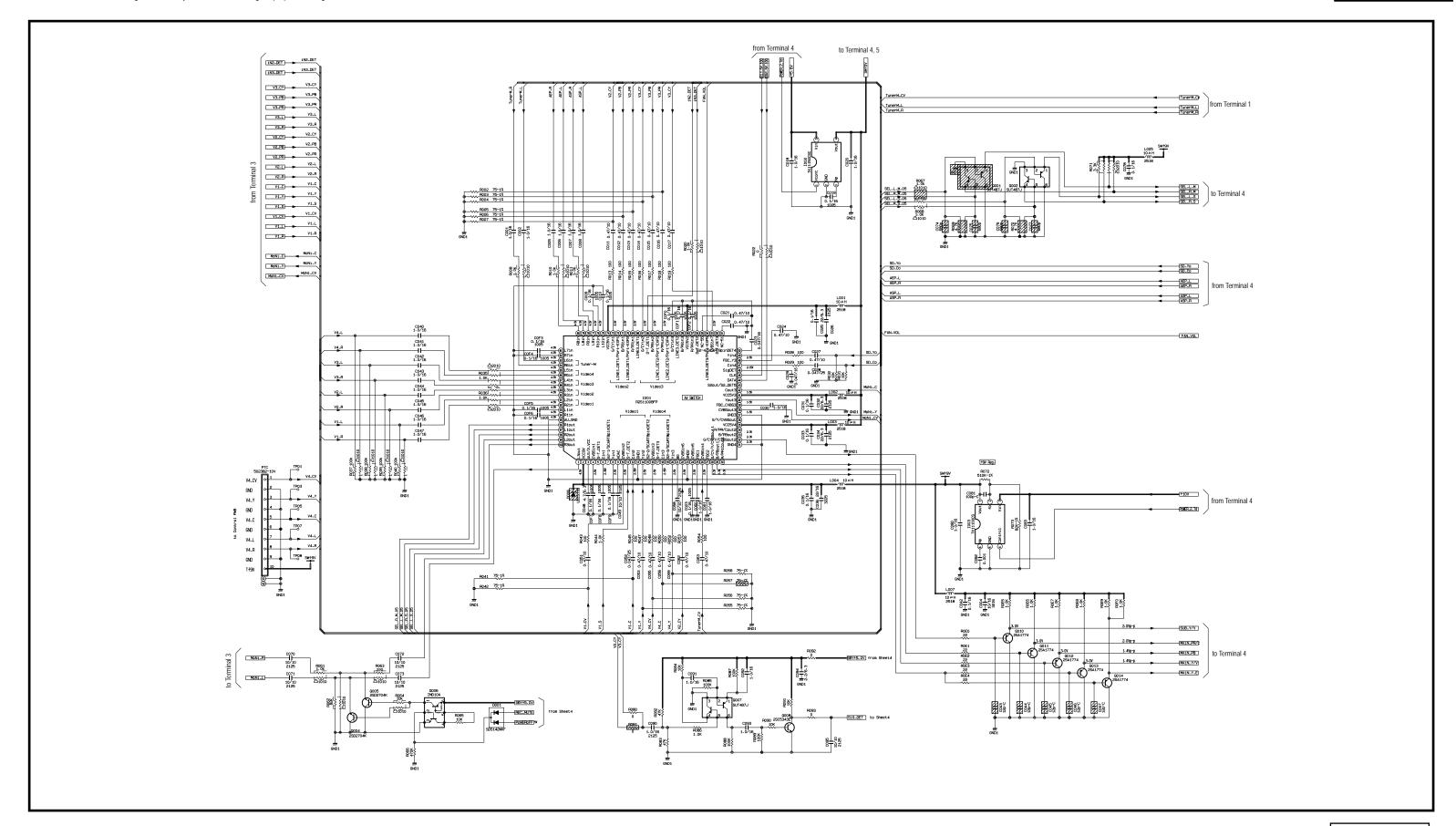


Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

Terminal

BASIC CIRCUIT DIAGRAM

PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

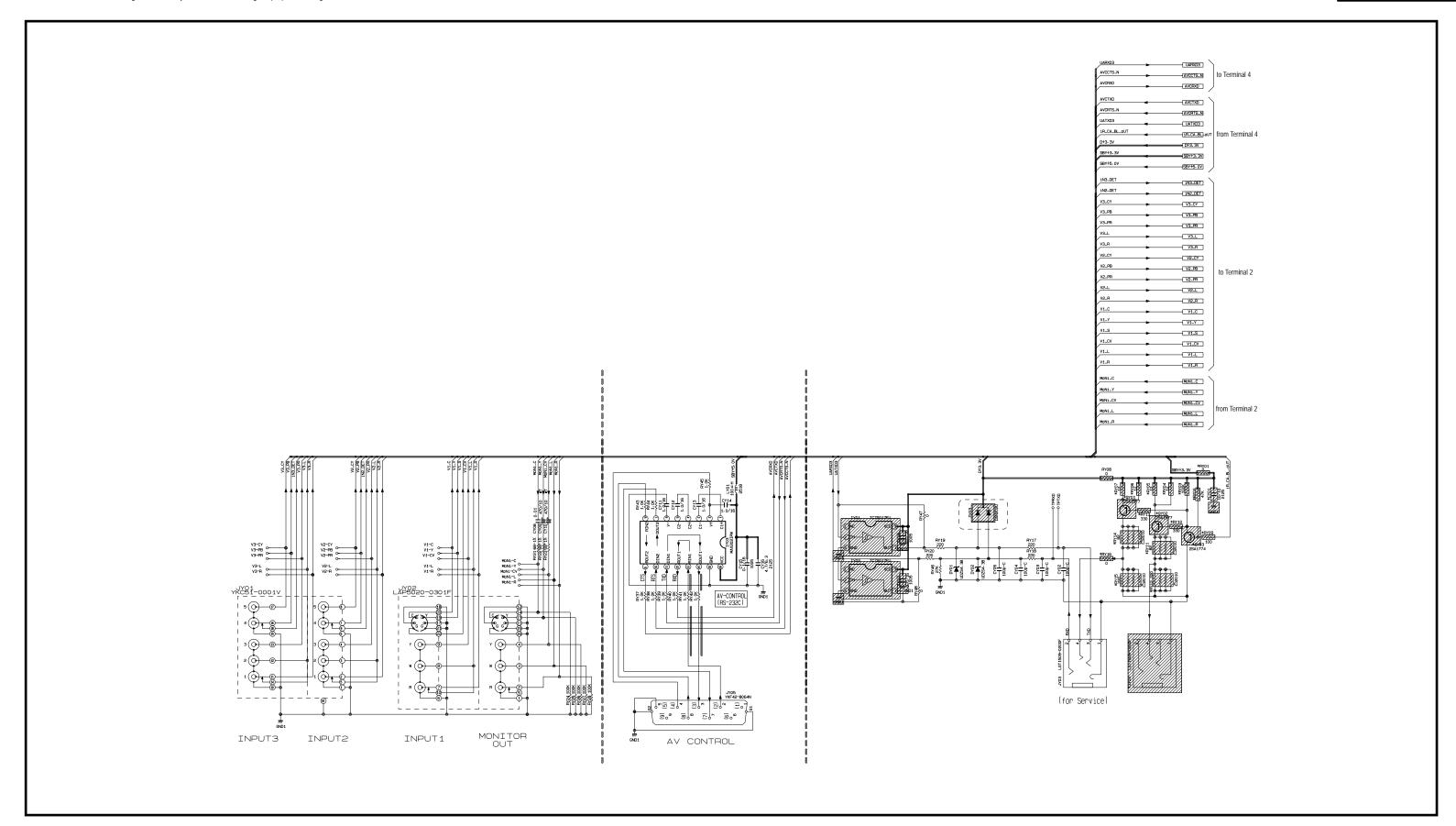


Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

Terminal

BASIC CIRCUIT DIAGRAM

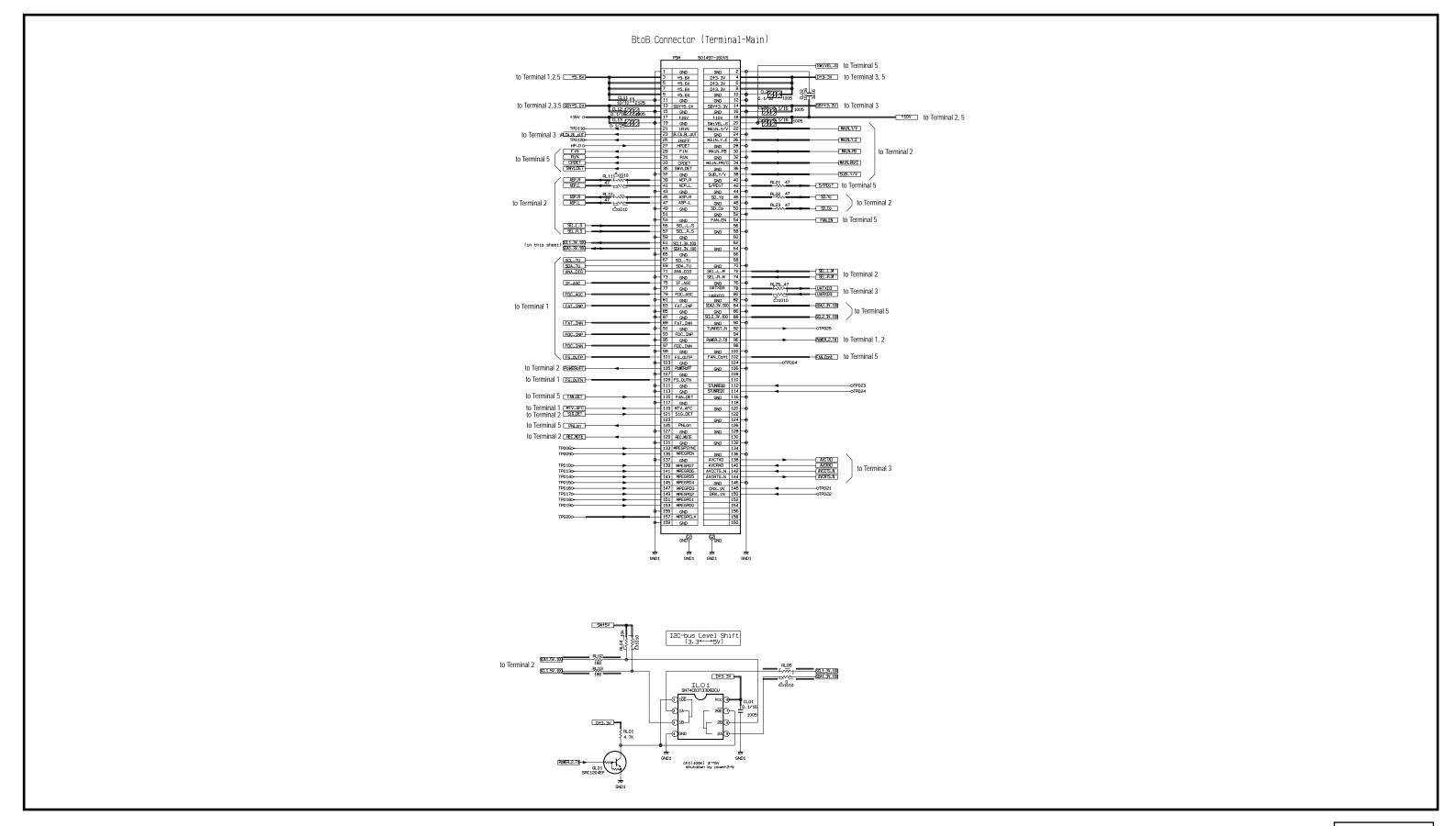
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

BASIC CIRCUIT DIAGRAM

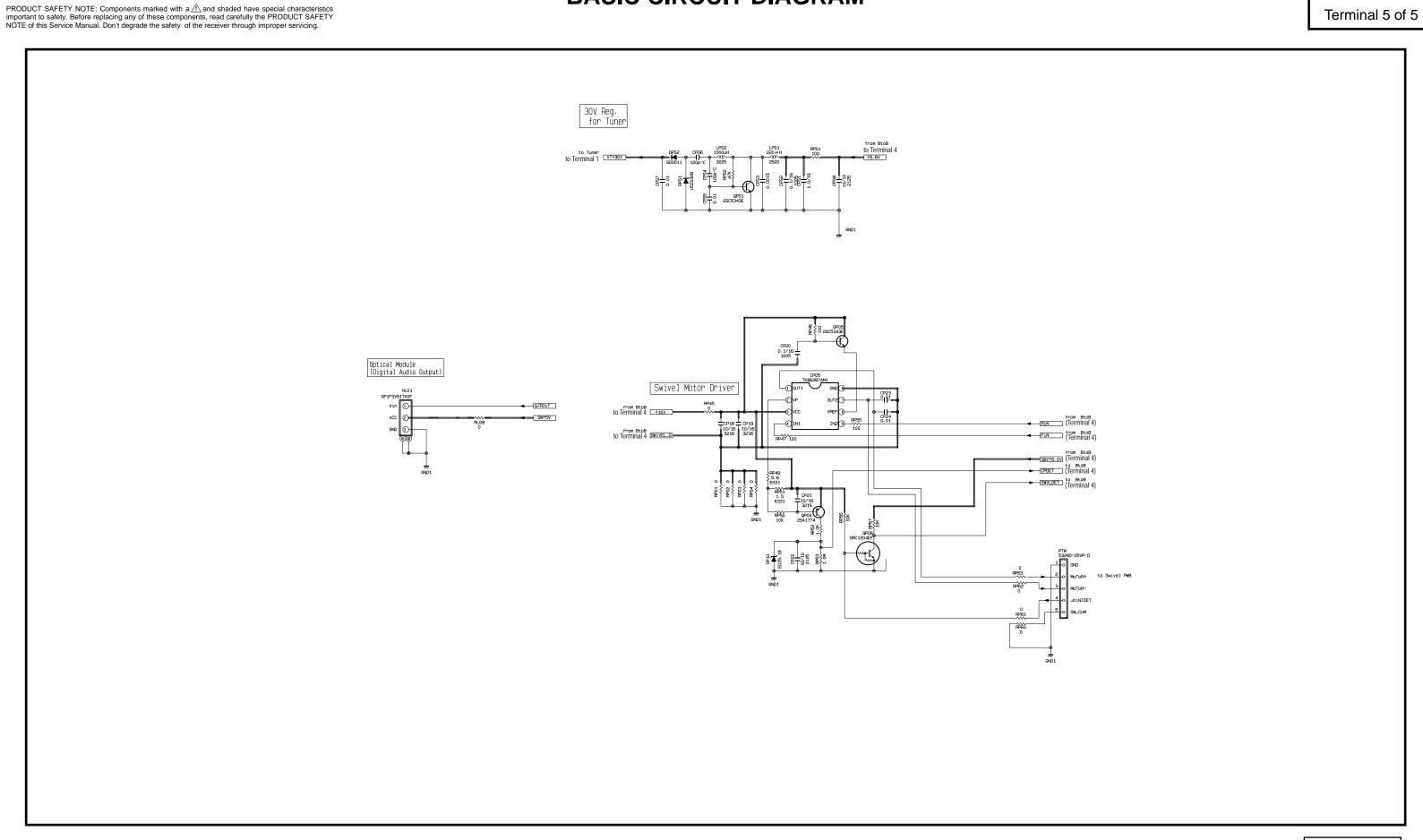
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

Terminal

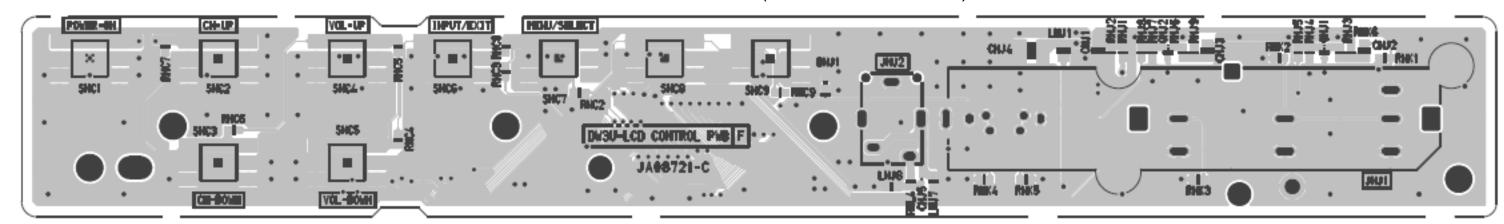
Terminal 5 of 5



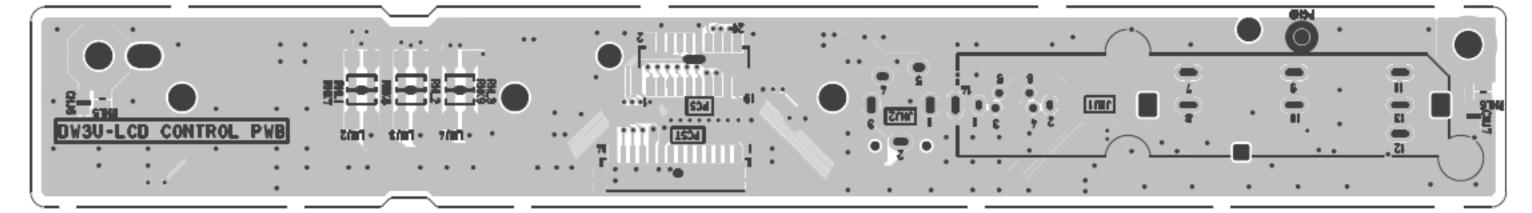
Since this is a basic circuit diagram, the value of the components is subject to change for improvement.

DW3-G "CONTROL PWB" PWB p/n X480430

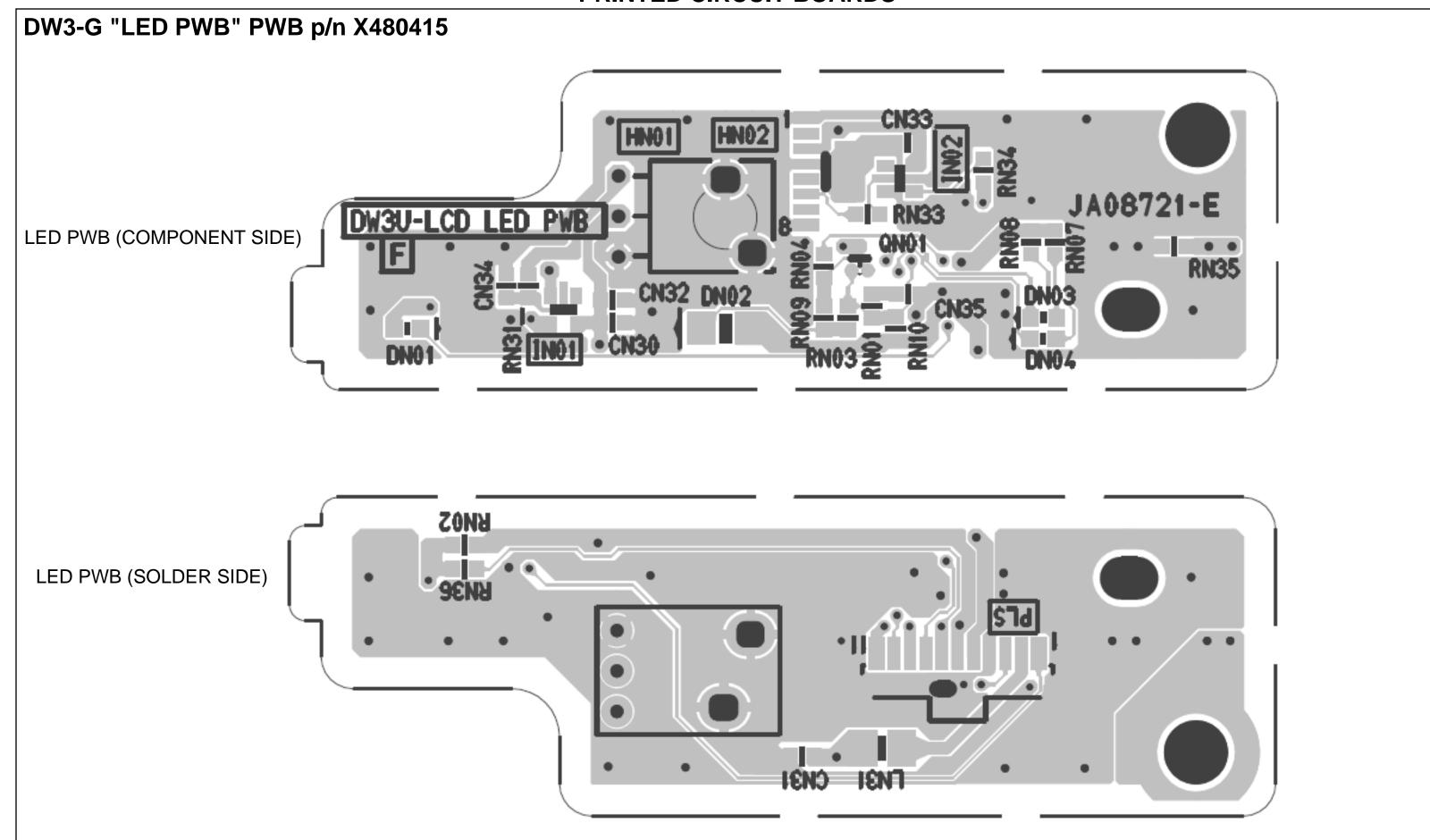
CONTROL PWB (COMPONENT SIDE)

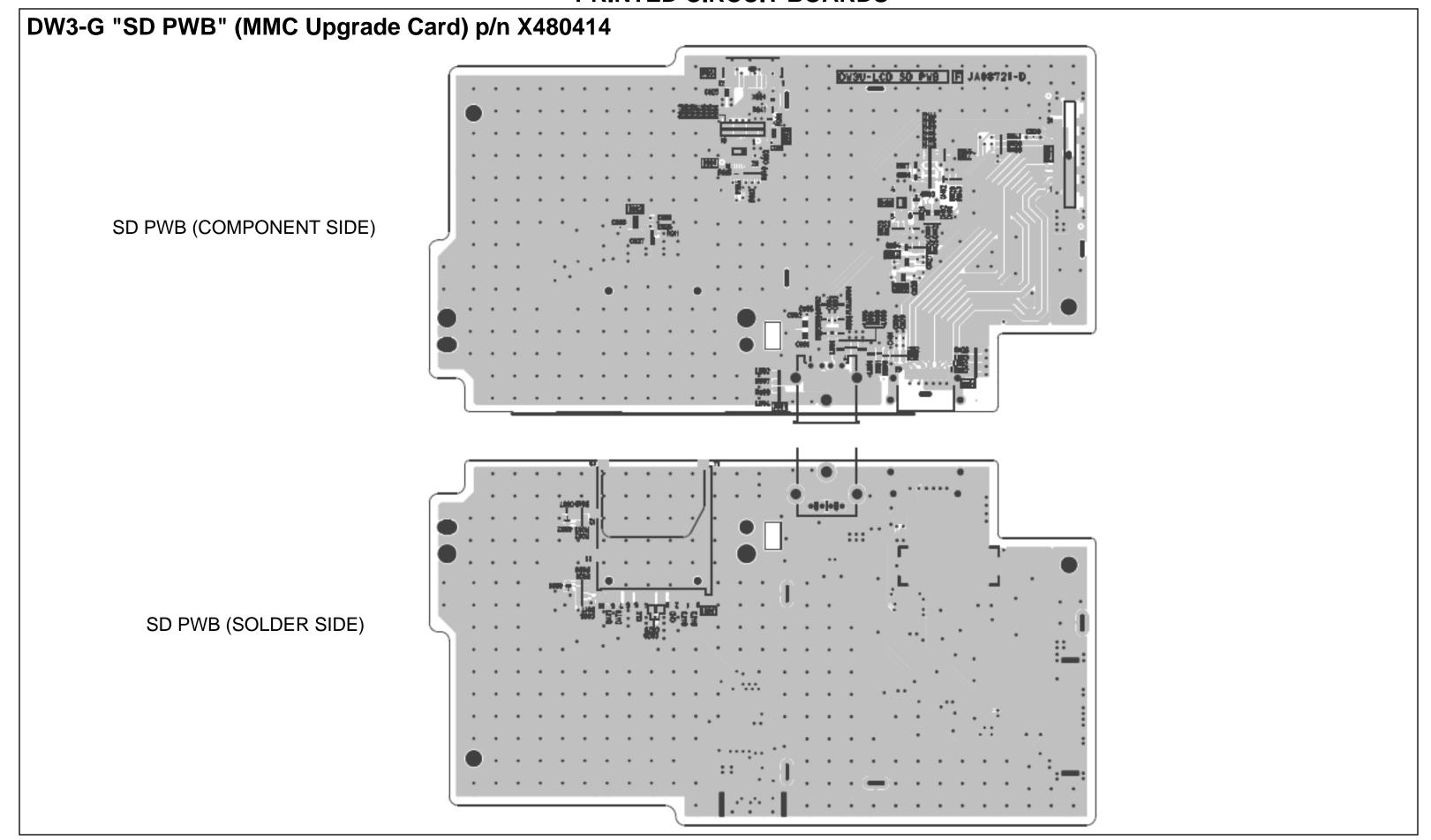


CONTROL PWB (SOLDER SIDE)



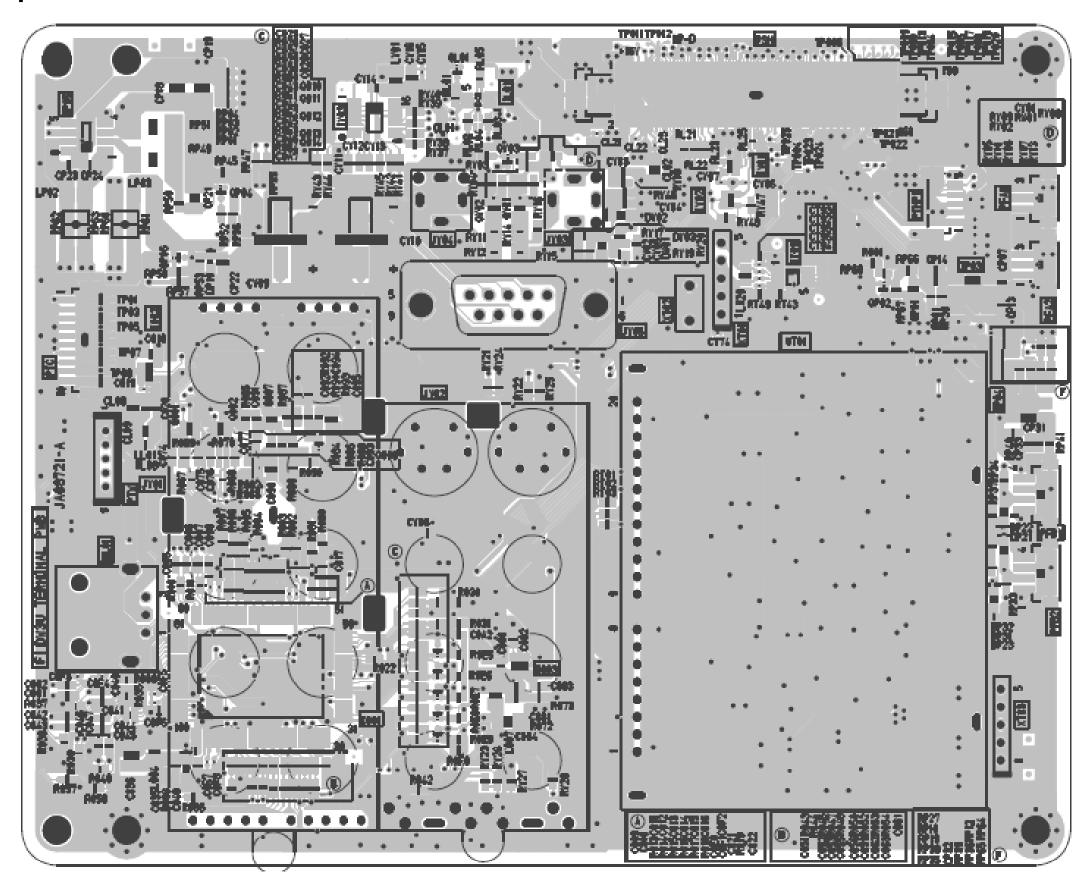






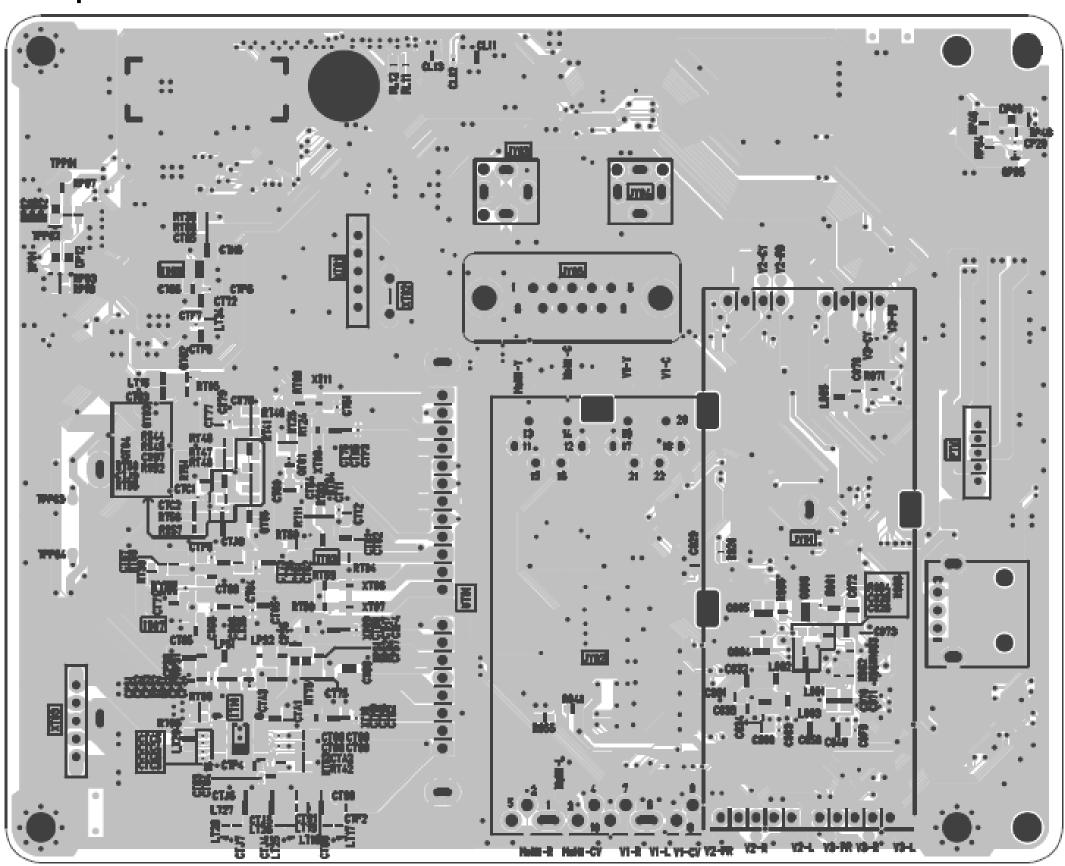
DW3-G "TERMINAL PWB" p/n JP55126

TERMINAL PWB (COMPONENT SIDE)



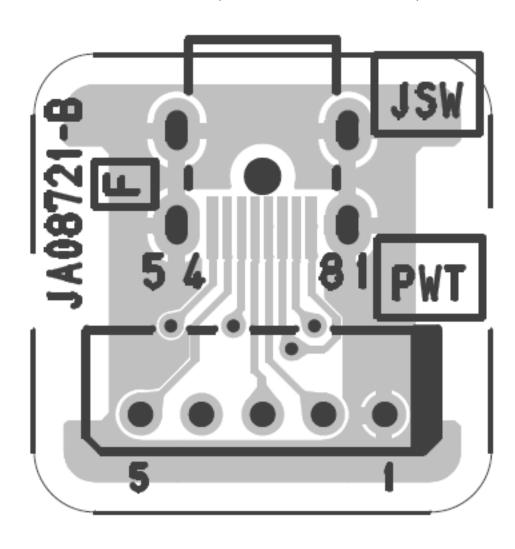
DW3-G "TERMINAL PWB" p/n JP55126

TERMINAL PWB (SOLDER SIDE)

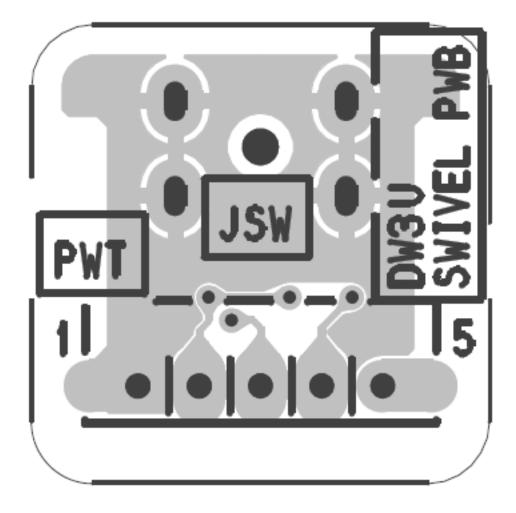


DW3-G "JSW PWB" Swivel Stand PWB p/n X480418





JSW PWB (SOLDER SIDE)



PARTS LIST

For L47S601 and L47V651.

NOTE: All the electronic assembled boards are included in the Terminal PWB assembly.

| CAP CO01 | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
|--|--|---------|---------|--------------|----------------------|--|---------|---------|
| CO01 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA011231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C010 AA01231R 0.1U C020 AA0114R CER C021 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA0114R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C024 AA0114R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C024 AA0114R CER C025 CAP C026 CO27 AA0114R CER C027 CO27 AA0114R CER C028 AA01343R CER C030 AA01144R CER C031 AA01144R CER C032 AA00969R CAP C033 AA01144R CER C044 AA01144R CER C045 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C049 AA00937R CAP C050 AA01121R CER C050 AA01343R CER | | | | C059 | AA01121R | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 |
| CO01 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C010 AA0121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 CO20 AA01144R CER C021 AA01121R CER C022 AA0114R CER C021 AA01121R CER C022 AA0114R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C030 AA01144R CER C029 0893188R CER C030 AA01144R CER C021 AA0114R CER C022 AA00969R CAP C023 AA01144R CER C024 AA01144R CER C031 AA01144R CER C032 AA00969R CAP C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | ASSEMBLY PART NUMBERS | | | C060 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| CAP C001 | | | | C061 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C010 AA0121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C020 AA01121R CER C021 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 A803188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CER C027 AA01121R CER C028 AA01141R CER C029 0893188R CER C020 AA01141R CER C020 AA01141R CER C021 AA01141R CER C023 AA00969R CAP C027 AA01121R CER C026 AA00969R CAP C027 AA0114R CER C027 AA0114R CER C028 AA01144R CER C029 0893188R CER C029 0893188R CER C029 0893188R CER C029 0893188R CER C020 AA01144R CER C021 AA01144R CER C022 AA01144R CER C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA001343R CER C052 AA01343R CER | PSA DW3 TERMINAL JOB F | 0 | 0 | C062 | AA01121R | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C020 AA01121R CER C019 AA01231R 0.1U C020 AA01121R CER C021 AA01121R CER C021 AA01121R CER C022 AA0114R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CER C027 AA01121R CER C028 AA01141R CER C029 0893188R CER C020 AA01141R CER C021 AA01141R CER C022 AA01141R CER C023 AA00969R CAP C027 AA01121R CER C026 AA00969R CAP C027 AA0114R CER C027 AA0114R CER C028 AA01144R CER C029 0893188R CER C029 0893188R CER C029 0893188R CER C020 AA01144R CER C021 AA01144R CER C022 AA01144R CER C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00137R CAP C051 AA01121R CER C049 AA00937R CAP C051 AA01121R CER C052 AA011343R CER | | | | C063 | AA01121R | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 A893188R CER < | | | | C070 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C010 AA0121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C020 AA01121R CER C021 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 A803188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CER C027 AA01121R CER C028 AA01141R CER C029 0893188R CER C020 AA01141R CER C020 AA01141R CER C021 AA01141R CER C023 AA00969R CAP C027 AA01121R CER C026 AA00969R CAP C027 AA0114R CER C027 AA0114R CER C028 AA01144R CER C029 0893188R CER C029 0893188R CER C029 0893188R CER C029 0893188R CER C020 AA01144R CER C021 AA01144R CER C022 AA01144R CER C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA001343R CER C052 AA01343R CER | | | | C071 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 A893188R CER < | | | | C072 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 A893188R CER < | | 0 | 0 | C073 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 A893188R CER < | | | | C078 | AA01141R | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 |
| C001 AA01144R CER C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 A893188R CER < | | | | C080 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER < | CAPACITORS | | | C081 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | 0 | 0 |
| C002 AA01144R CER C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER < | | | | C082 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | 0 | 0 |
| C003 AA01231R 0.1U C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA0121R CER C019 AA01121R CER C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER <t< td=""><td>CERAMIC CAP. 1608-B 1.0UF 16V</td><td>0</td><td>0</td><td>C083</td><td>AA01144R</td><td>CERAMIC CAP. 1608-B 1.0UF 16V</td><td>0</td><td>0</td></t<> | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C083 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C004 AA00699R CAP C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP < | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C090 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | 0 | 0 |
| C005 AA01144R CER C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C010 AA01124R CER C021 AA01124R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA0969R CAP C027 AA01121R CER < | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | C091 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C006 AA01144R CER C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA0114R CER C019 AA01231R 0.1U C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER <t< td=""><td>CAP.CHIP-CERAMIC 10UFK 16V B 3</td><td>0</td><td>0</td><td>C092</td><td>AA01144R</td><td>CERAMIC CAP. 1608-B 1.0UF 16V</td><td>0</td><td>0</td></t<> | CAP.CHIP-CERAMIC 10UFK 16V B 3 | 0 | 0 | C092 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C007 AA01144R CER C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA0114R CER C019 AA01231R 0.1U C020 AA0114R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C024 AA01121R CER C025 AA0114R CER C026 AA0343R CER C027 AA01121R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C093 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C008 AA01144R CER C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01124R CER C019 AA01231R 0.1U C020 AA01124R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA01141R CER C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C0203 AA01144R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C094 | AA01113R | CCC225K06-B-16CT | 0 | 0 |
| C009 AA01231R 0.1U C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01144R CER C019 AA01121R CER C019 AA01121R CER C020 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00141R CER C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER < | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C095 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C010 AA01231R 0.1U C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01144R CER C019 AA01121R CER C019 AA01121R CER C020 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01144R CER <t< td=""><td>CERAMIC CAP. 1608-B 1.0UF 16V</td><td>0</td><td>0</td><td>C0A2</td><td>AA01141R</td><td>CERAMIC CAPACITOR(0.1UF 16V)</td><td>0</td><td>0</td></t<> | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | C0A2 | AA01141R | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 |
| C011 AA01121R CER C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R O.1U C020 AA01124R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01144R CER C032 AA00969R CAP C033 AA01144R CER <t< td=""><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td><td>COF0</td><td>AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | COF0 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C012 AA01121R CER C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R C.IU C020 AA01124R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01144R CER C032 AA00969R CAP C033 AA01144R CER C034 AA00969R CAP <t< td=""><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td><td>C0F1</td><td>AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | C0F1 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C013 AA01121R CER C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01144R CER C019 AA01231R CIR C020 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01144R CER C032 AA00969R CAP C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER <td< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>C0F2</td><td>AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></td<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | C0F2 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C014 AA01121R CER C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01144R CER C019 AA01231R 0.1U C020 AA01144R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01144R CER C033 AA01141R CER C034 AA00969R CAP C033 AA01141R CER C034 AA01144R CER C035 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>COF3</td><td>AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | COF3 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C015 AA01121R CER C016 AA01121R CER C017 AA01121R CER C018 AA01144R CER C019 AA01231R 0.1U C020 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01144R CER C033 AA01144R CER C033 AA01144R CER C034 AA00969R CAP C035 AA01144R CER C040 AA01144R CER C041 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>COF4</td><td>AA01231R AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | COF4 | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C016 AA01121R CER C017 AA01121R CER C018 AA01121R CER C019 AA01231R 0.1U C020 AA01144R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C034 AA01141R CER C035 AA01144R CER C040 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>C0F5 C0F6</td><td></td><td></td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | C0F5 C0F6 | | | 0 | 0 |
| C017 AA01121R CER C018 AA01144R CER C019 AA01231R 0.1U C020 AA01144R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C034 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td></td><td>AA01231R AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C018 AA01144R CER C019 AA01231R 0.1U C020 AA01121R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.47UF 10V) CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>C0F7 C0F8</td><td>AA01231R AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.47UF 10V) CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | C0F7 C0F8 | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C019 AA01231R 0.1U C020 AA01144R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01141R CER C033 AA01141R CER C034 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER <t< td=""><td>CERAMIC CAPACITOR(0.470F 10V)</td><td>0</td><td>0</td><td>COF6</td><td>AA01231R AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></t<> | CERAMIC CAPACITOR(0.470F 10V) | 0 | 0 | COF6 | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C020 AA01144R CER C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01141R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER <td< td=""><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td><td>CH01</td><td>0893348R</td><td>CCC103K25-B-10CT 1005-B-0.01UF</td><td>0</td><td>0</td></td<> | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | CH01 | 0893348R | CCC103K25-B-10CT 1005-B-0.01UF | 0 | 0 |
| C021 AA01121R CER C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C034 AA00969R CAP C035 AA01141R CER C036 AA01185R CAP C036 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER <td< td=""><td>CERAMIC CAP. 1608-B 1.0UF 16V</td><td>0</td><td>0</td><td>CH01</td><td>AA01231R</td><td>0.1UF 16V 1005-B CERAMIC CAPAC</td><td>0</td><td>0</td></td<> | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CH01 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C022 AA01121R CER C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01154R CER <td< td=""><td>CERAMIC CAPACITOR(0.47UF 10V)</td><td>0</td><td>0</td><td>CH12</td><td>AA01231R AA01116R</td><td>CAP.CHIP1608-B-10UF 6.3V M</td><td>0</td><td>0</td></td<> | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CH12 | AA01231R AA01116R | CAP.CHIP1608-B-10UF 6.3V M | 0 | 0 |
| C023 0893188R CER C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C040 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01155R CAP <td< td=""><td>CERAMIC CAPACITOR(0.4701 10V) CERAMIC CAPACITOR(0.4701 10V)</td><td>0</td><td>0</td><td>CH20</td><td>0893348R</td><td>CCC103K25-B-10CT 1005-B-0.01UF</td><td>0</td><td>0</td></td<> | CERAMIC CAPACITOR(0.4701 10V) CERAMIC CAPACITOR(0.4701 10V) | 0 | 0 | CH20 | 0893348R | CCC103K25-B-10CT 1005-B-0.01UF | 0 | 0 |
| C024 AA01121R CER C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C040 AA01148R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C050 AA01343R CER | CERAMIC CAPACITOR(47000PF 16V) | 0 | 0 | CH27 | AA01216R | CAP.CHIP-CERAMIC 1005B 1UF 6.3 | 0 | 0 |
| C025 AA01141R CER C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01185R CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA0115F CAP C049 AA00937R CAP C051 AA0121R CER | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CH28 | AA01216R | CAP.CHIP-CERAMIC 1005B 1UF 6.3 | 0 | 0 |
| C026 AA00969R CAP C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01141R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01185R CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00377R CAP C050 AA01343R CER | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 | CH29 | CE00151R | EZJZ0V80010 | 0 | 0 |
| C027 AA01121R CER C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01144R CER C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CAP.CHIP2125-B-22UF6.3V | 0 | ő | CH30 | CE00151R | EZJZ0V80010 | 0 | 0 |
| C028 AA01343R CER C029 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01185R CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CL01 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| CO29 0893188R CER C030 AA01144R CER C031 AA01141R CER C032 AA00969R CAP C033 AA01141R CER C034 AA00969R CAP C035 AA01141R CER C036 AA01148F CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01144R CER C049 AA00937R CAP C051 AA0121R CER C052 AA01343R CER | CERAMIC CAPACITOR(0.047UF 25V- | 0 | 0 | CL02 | AA00699R | CAP.CHIP-CERAMIC 10UFK 16V B 3 | 0 | 0 |
| C030 | CERAMIC CAPACITOR(47000PF 16V) | 0 | 0 | CL11 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C032 | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CN30 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C033 | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 | CN32 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C034 | CAP.CHIP2125-B-22UF6.3V | 0 | 0 | CNJ1 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C035 AA01141R CER C036 AA01185R CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 | CNJ2 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C036 AA01185R CAP C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01145R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CAP.CHIP2125-B-22UF6.3V | 0 | 0 | CNJ3 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C040 AA01144R CER C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01145R CAR C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAPACITOR(0.1UF 16V) | 0 | 0 | CNJ4 | AA00421R | CERAMIC CAPACITOR(10UF 16V) | 0 | 0 |
| C041 AA01144R CER C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CAP.CHIP-CERAMIC 22UF/16V B 32 | 0 | 0 | CP18 | AA00699R | CAP.CHIP-CERAMIC 10UFK 16V B 3 | 0 | 0 |
| C042 AA01144R CER C043 AA01144R CER C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP19 | AA00699R | CAP.CHIP-CERAMIC 10UFK 16V B 3 | 0 | 0 |
| C043 | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP20 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C044 AA01144R CER C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP21 | AA00699R | CAP.CHIP-CERAMIC 10UFK 16V B 3 | 0 | 0 |
| C045 AA01144R CER C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP22 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| C046 AA01144R CER C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP23 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 |
| C047 AA01144R CER C048 AA01115R CAP C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CP24 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 |
| C048 | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CPS1 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 |
| C049 AA00937R CAP C051 AA01121R CER C052 AA01343R CER | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | CPS2 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |
| C051 AA01121R CER C052 AA01343R CER | CAP.CHIP1608-B-4.7UF6.3V | 0 | 0 | CPS3 | 0893211R | CAP 1608CHIP 1500PFKB 50V TAPE | 0 | 0 |
| C052 AA01343R CER | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | CPS4 | 0893127R | CAP 1608CHIP 120PFJCH 50V TAPE | 0 | 0 |
| | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CPS5 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 |
| | CERAMIC CAPACITOR(0.047UF 25V- | 0 | 0 | CPS6 | 0893127R | CAP 1608CHIP 120PFJCH 50V TAPE | 0 | 0 |
| | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CPS7 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 |
| | CERAMIC CAPACITOR(0.47UF 10V) | 0 | 0 | CPS8 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 |
| | CERAMIC CAPACITOR(0.47UF 10V) CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | CQ01 CQ02 | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 |

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|--------------|----------------------|--|---------|---------|--------------|----------------------|---|---------|---------|
| SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
| CQ06 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | 0 | 0 | | | DIODES | | |
| CQ07 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | 0 | 0 | | | | | |
| CQ08 | 0893348R | CCC103K25-B-10CT 1005-B-0.01UF | 0 | 0 | D001 | CC01921R | SDS142WKF_PF | 0 | 0 |
| CQ25 | AA00969R | CAP.CHIP2125-B-22UF6.3V | 0 | 0 | DH01 | CC01891R | SDS511_PF | 0 | 0 |
| CQ26 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | DH02 | CC01891R | SDS511_PF | 0 | 0 |
| CQ27 | AA00969R | CAP.CHIP2125-B-22UF6.3V | 0 | 0 | DN01 | CC01871R | LIGHT EMITTING DIODE | 0 | 0 |
| CQ28 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | DN02 | CC01863R | LIGHT EMITTING DIODE (SML012BC4T) | 0 | 0 |
| CQ29 | AA00969R | CAP.CHIP2125-B-22UF6.3V | 0 | 0 | DN03 | CC01872R | LIGHT EMITTING DIODE | 0 | 0 |
| CQ30 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | DP10 | CC02075R | ZENER.CHIP EDZ TE61 5.1B | 0 | 0 |
| CT11 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | DPS1 | CC02022R | ZENER.CHIP UDZSTE-1730B | 0 | 0 |
| CT12 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | DPS2 | CC01891R | SDS511_PF | 0 | 0 |
| CT60 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | DY01 | CC01999R | ZENER.CHIP UDZSTE-174.3B | 0 | 0 |
| CT61 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | DY02 | CC01999R | ZENER.CHIP UDZSTE-174.3B | 0 | U |
| CT62 CT63 | AA01231R AA00937R | 0.1UF 16V 1005-B CERAMIC CAPAC CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | | | | | |
| CT64 | AA00937R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | | | INTEGRATED CIRCUITS AND MODULES | 0 | 0 |
| CT65 | AA01231R AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | | | INTEGRATED CIRCUITS AND MODULES | 0 | U |
| CT66 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | HL01 | CZ01391 | ANALOG MONOLITHIC IC GP1FSV51TK0F) | 0 | 0 |
| | | | _ | | HN01 | CZ01371U | INFRARED DETECTING | 0 | 0 |
| CT67 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | | | UNIT(GP1UE281RK0VF) | | |
| CT68 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | 1001 | CK53531U | R2S11008FP | 0 | 0 |
| CT71 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | 1002 | CK37218R | MONO IC TK11150CSCL | 0 | 0 |
| CT72 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | 1003 | CK51331R | TK11100CS | 0 | 0 |
| CT73 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | IH01 | CK53582R | S-24CS02AFT-TB-G | 0 | 0 |
| CT74 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | IH04 | CK55511R | 1G LOGIC IC (TC7SG17FU) | 0 | 0 |
| CT75 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | IH05 | CK55511R | 1G LOGIC IC (TC7SG17FU) | 0 | 0 |
| CT76 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | IL01 | CK50961R | SN74CB3T3306DCUR | 0 | 0 |
| CT77 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | 0 | 0 | IN01 | CK55475R | 1GATE LOGIC IC (TC7SZ14FU) | 0 | 0 |
| CT78 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | IP05 | CK55331R | TX86287AM1 | 0 | 0 |
| CT79 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | IQ01 | CK53741R | TC7MBL3245AFK | 0 | 0 |
| CT80 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | IQ02 | CK37216R | MONO IC TK11133CSCL | 0 | 0 |
| CT81 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | IQ03 | CK55511R | 1G LOGIC IC (TC7SG17FU) | 0 | 0 |
| CT85 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | IT03 | CK53612R | TC7PA53FU | 0 | 0 |
| CT86 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | IT05 | CK37218R | MONO IC TK11150CSCL | 0 | 0 |
| CT92 CT93 | AA01231R 0893222R | 0.1UF 16V 1005-B CERAMIC CAPAC CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | IT06 IT07 | CK37605R CK37605R | IC TK11250CM IC TK11250CM | 0 | 0 |
| CT95 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | IT07 | CK57603R CK51152R | UPC3231GV | 0 | 0 |
| CT96 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | IY03 | CK50027R | DIGITAL MONOLITHIC IC (MAX202I | 0 | 0 |
| CT97 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | Ö | 1100 | 3110002711 | | | |
| CTC1 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | | | | | |
| CTC2 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | | | JACKS | | |
| CTF3 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | | | | | |
| CTF4 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JH01 | EA01801U | HDMI RECEPTACLE SMT | 0 | 0 |
| CTF6 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JNJ1 | EQ00403 | JACK | 0 | 0 |
| CTF7 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JQ01 | EY02191R | SD MEMORY CARD 54786-0971 | 0 | 0 |
| CTF8 CTF9 | AA00937R AA01231R | CAP.CHIP-CERAMIC 10UF 10V 2012BK 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JSW JY01 | EA02231R EQ00721 | 8P 0.45 PITCH SOCKET 3234 | 0 | 0 |
| CTG1 | AA01231R AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JY02 | EQ00721 EQ00961 | JACK JACK | 0 | 0 |
| CTG1 | AA01231R AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | JY03 | EQ00741 | JACK | 0 | 0 |
| CTG2 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | JY05 | EQ00741 | JACK | 0 | 0 |
| CTG4 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | | | | | 1 |
| CTG5 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | | | | | |
| CTH6 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | | | INDUCTORS | | |
| CTH7 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | | | | | |
| CTJ8 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | L001 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CTM8 | 0893222R | CAP 1608CHIP10000PFKB 50V TAPE | 0 | 0 | L002 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CTM9 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | L003 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CTN6 | AA00937R | CAP.CHIP-CERAMIC 10UF 10V 2012BK | 0 | 0 | L004 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CY02 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | 0 | 0 | L005 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CY03 CY04 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | 0 | 0 | L007 | BA00887R | LBC2518 CHIP COIL 10UH | 0 | 0 |
| CY04 CY05 | 0893126R 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE CAP 1608CHIP 100PFJCH 50V TAPE | 0 | 0 | LNJ1 LPS1 | BA02646R BA02185R | LBR2012 CHIP INDUCTOR 47UH HCC221J2520CT | 0 | 0 |
| CY08 | 0893222R | CAP 1608CHIP 100PFJCH 30V TAPE | 0 | 0 | LPS1 LPS2 | BA02163R BA02244R | HCC102J32CT | 0 | 0 |
| CY09 | AD00433R | CEC471M10-EWCT | 0 | 0 | LT16 | BM00151R | FILTER BLM21P300SPT | 0 | 0 |
| CY10 | AD00433R | CEC471M10-EWCT | 0 | 0 | LT20 | BA01127R | MLF2012 CHIP INDUCTOR 1.8UH | 0 | 0 |
| CY11 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | LT34 | BM10348R | CHIP FERRITE BEAD BLM18PG121SN | 0 | 0 |
| CY12 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | LT35 | BM10348R | CHIP FERRITE BEAD BLM18PG121SN | 0 | 0 |
| CY13 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | LT36 | BM10348R | CHIP FERRITE BEAD BLM18PG121SN | 0 | 0 |
| CY14 | AA01144R | CERAMIC CAP. 1608-B 1.0UF 16V | 0 | 0 | LY01 | BA00894R | LBC2518 CHIP COIL 100UH | 0 | 0 |
| CY15 | AA01231R | 0.1UF 16V 1005-B CERAMIC CAPAC | 0 | 0 | | | | | |
| CY16 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | 0 | 0 | | | | | 1 |

| | PART No. | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
|--------------|----------------------|--|---------|---------|--------------|----------------------|---|---------|---------|
| | | CONNECTOR TERMINALS | | | R029 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| | | | | | R035 | AQ00537R | 4-NETWORKED CHIP RESISTOR 1.0K | 0 | 0 |
| PCST | EA04044R | 14P 1.25MM PITCH CONNE. (502382) | 0 | 0 | R036 | AQ00537R | 4-NETWORKED CHIP RESISTOR 1.0K | 0 | 0 |
| PDS | EA02352R | 12P 1.0MM PITCH CONNE501568-1207 | 0 | 0 | R037 | AQ03344R | RES.CHIP 1/16W 100KOHM | 0 | 0 |
| PH01 | EA02652R | PLUG | 0 | 0 | R038 | AQ03344R | RES.CHIP 1/16W 100KOHM | 0 | 0 |
| PLS | EA02331R | 11P 1.0MM PITCH CONNE. 501331- 0.5 PITCH 160P B TO B CONN. SHIELD | 0 | 0 | R039 | AQ03344R | RES.CHIP 1/16W 100KOHM | 0 | 0 |
| PSM | EA02223U | TYPE RECE | 0 | 0 | R040 | AQ03344R | RES.CHIP 1/16W 100KOHM | 0 | 0 |
| PTC | EA04039R | 10P 1.25MM PITCH CONNE. (502382) | 0 | 0 | R041 | AQ00164R | CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 |
| PTW PWT | ED01073 ED01053 | PLUG CONNECTOR | 0 | 0 | R042 R043 | AQ00164R 0790024R | CHIP RESITOR 1/16W 75OHM TAPE RES.CHIP 1/16W 100 OHM | 0 | 0 |
| 1 44 1 | LD01033 | CONNECTOR | 0 | 0 | R044 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| | | | | | R045 | 0790024R | RES.CHIP 1/16W 100 OHM | ő | ő |
| | | TRANSISTORS | | | R047 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| | | | | | R048 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| Q002 | CA02162R | SUT487J | 0 | 0 | R050 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| Q004 | CA03271R | SMD TRS 2SD2704K | 0 | 0 | R052 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| Q005 | CA03271R | SMD TRS 2SD2704K | 0 | 0 | R053 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| Q006 | CA01181R | D-TRS.CHIP IMD10A | 0 | 0 | R054 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| Q007 | CA02162R | SUT487J | 0 | 0 | R055 | AQ00164R | CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 |
| Q008 Q010 | CA14091R 1323294R | PHOTO TRANSISTOR TRS.CHIP 2SA1774 TL (R/S) | 0 | 0 | R056 R058 | AQ00164R AQ00164R | CHIP RESITOR 1/16W 750HM TAPE CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 |
| Q010 Q011 | 1323294R 1323294R | TRS.CHIP 2SA1774 TL (N/S) | 0 | 0 | R061 | AQ00104R AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 |
| Q012 | 1323274R 1323294R | TRS.CHIP 2SA1774 TL (R/S) | 0 | 0 | R062 | AQ03317R AQ03343R | RES.CHIP 1/16W 82KOHM | 0 | 0 |
| Q013 | 1323294R | TRS.CHIP 2SA1774 TL (R/S) | 0 | 0 | R063 | AQ03308R | RES.CHIP 1/16W 2200HM | 0 | 0 |
| Q014 | 1323294R | TRS.CHIP 2SA1774 TL (R/S) | 0 | 0 | R064 | AQ03331R | RES.CHIP 1/16W 10KOHM | 0 | 0 |
| QH01 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) | 0 | 0 | R065 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| QH02 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) | 0 | 0 | R066 | 0790073R | RES.CHIP 1/16W 470K OHM | 0 | 0 |
| QH03 | CA02092R | SRC1202EF | 0 | 0 | R068 | AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 |
| QH04 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) | 0 | 0 | R071 | AQ00544R | CHIP RESISTOR 3.3KOHM | 0 | 0 |
| QL01 | CA02091R | SRC1204EF_PF | 0 | 0 | R072 | AQ00266R | RES.CHIP 1/16W 510K OHM TAPE | 0 | 0 |
| QNJ1 | CA14091R | PHOTO TRANSISTOR | 0 | 0 | R073 | AQ00245R | RES.CHIP 1/16W 82K OHM TAPE CHIP RESISTOR RECJUMPER-1- | 0 | 0 |
| QNJ2 | CA14091R | PHOTO TRANSISTOR | 0 | 0 | R080 | 0790001R | 16C16T1608 | 0 | 0 |
| QP04 | 1323294R | TRS.CHIP 2SA1774 TL (R/S) | 0 | 0 | R082 | 0790059R | RES.CHIP 1/16W 47K OHM | 0 | 0 |
| QP05 | CA14091R | PHOTO TRANSISTOR | 0 | 0 | R083 | 0790059R | RES.CHIP 1/16W 47K OHM | 0 | 0 |
| QP06 QPS1 | CA02091R CA14091R | SRC1204EF_PF PHOTO TRANSISTOR | 0 | 0 | R084 R085 | 0790051R 0790064R | RES.CHIP 1/16W 10K OHM RES.CHIP 1/16W 100K OHM | 0 | 0 |
| QQ01 | CA14091R CA02091R | SRC1204EF_PF | 0 | 0 | R086 | 0790004R 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| QQ02 | CA02071R | SRC1204EF_PF | 0 | 0 | R087 | 0790064R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| QT01 | CA14091R | PHOTO TRANSISTOR | 0 | 0 | R088 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 |
| QT02 | CA14091R | PHOTO TRANSISTOR | 0 | 0 | R089 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 |
| QT03 | CA02171R | TRS.CHIP 2SC4082T106P | 0 | 0 | R090 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| QT04 | CA02171R | TRS.CHIP 2SC4082T106P | 0 | 0 | R091 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| QT05 | CA02171R | TRS.CHIP 2SC4082T106P | 0 | 0 | R092 | 0790001R | CHIP RESISTOR RECJUMPER-1- 16C16T1608 | 0 | 0 |
| 2103 | 0/10217110 | 110.01111 230400211001 | | | 11072 | 077000110 | CHIP RESISTOR RECJUMPER-1- | | |
| | | | | | R093 | 0790001R | 16C16T1608 | 0 | 0 |
| | | | | | R0E0 | 0790015R | RES.CHIP 1/16W 22 OHM | 0 | 0 |
| | | RESISTORS | | | R0E1 | 0790015R | RES.CHIP 1/16W 22 OHM | 0 | 0 |
| 5000 | | 0.00 | | | R0E2 | 0790015R | RES.CHIP 1/16W 22 OHM | 0 | 0 |
| R002 | AQ00164R | CHIP RESITOR 1/16W 75OHM TAPE | 0 | 0 | R0E3 | 0790015R | RES.CHIP 1/16W 22 OHM | 0 | 0 |
| R003 | AQ00164R | CHIP RESITOR 1/16W 750HM TAPE CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 | R0E4 | 0790015R | RES.CHIP 1/16W 22 OHM | 0 | 0 |
| R004 R005 | AQ00164R AQ00164R | CHIP RESITOR 1/16W 750HM TAPE CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 | R0E5 R0E6 | 0790037R 0790037R | RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R006 | AQ00104R AQ00164R | CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 | R0E7 | 0790037R 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R007 | AQ00164R | CHIP RESITOR 1/16W 750HM TAPE | 0 | 0 | R0E8 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R008 | AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 | R0E9 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R010 | AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 | R0F0 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R011 | AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 | RH03 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| R013 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH04 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| R014 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH05 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| R015 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH14 | 0790064R | RES.CHIP 1/16W 100K OHM CHIP RESISTOR RECJUMPER-1- | 0 | 0 |
| R016 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH15 | 0790001R | 16C16T1608 | 0 | 0 |
| R010 R017 | 0790024R 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH17 | 0790001R 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 |
| R017 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH18 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| R019 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RH19 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| | AQ03317R | RES.CHIP 1/16W 1KOHM | 0 | 0 | RH20 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| R020 | AQU3317K | INLO.OTHI 1/10W INOTHIN | _ | | | | | | |

| 19790468 RES.C III 110W 4 X O MM 0 0 0 0 0 0 0 0 0 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
|--|--------|----------|--|---------|---------|--------|----------|--|---------|---------|
| 1979/0978 RES CHIP 110W 47 CHM 0 0 0 0 0 0 0 0 0 | | | | | | | | CHIP RESISTOR RECJUMPER-1- | | |
| RHZ5 | RH23 | 0790059R | RES.CHIP 1/16W 47K OHM | 0 | 0 | RNL3 | 0790001R | | 0 | 0 |
| R128 | RH24 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | RNL5 | AQ00501R | CHIP RESISTOR OOHM | 0 | 0 |
| RH296 07900078 RES.CHIP 1/TOW 100 OHM | RH25 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | RNL6 | AQ00501R | CHIP RESISTOR 00HM | 0 | 0 |
| RH399 0790024R RH52 CHIP 116W 100 OMM 0 0 RP40 0790024R RH52 CHIP 116W 100 OMM 0 0 RP40 0790024R RH52 CHIP 116W 100 OMM 0 0 RP40 0790024R RH52 CHIP 116W 100 OMM 0 0 RP40 0790024R RH52 CHIP 116W 100 OMM 0 0 RP50 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH52 0790014R RH52 CHIP 116W 100 OMM 0 0 RH5 | | | CHIP RESISTOR RECJUMPER-1- | | | | | CHIP RESISTOR RECJUMPER-1- | | |
| RISPATE 0790024R RES CHIP INIGN 100 OHM 0 0 RP49 0790021R RES CHIP INIGN 100 OHM 0 0 RP49 0790021R RES CHIP INIGN 100 OHM 0 0 RP49 0790021R RES CHIP INIGN 100 OHM 0 0 RP59 0790021R RES CHIP INIGN 100 OHM 0 0 R | RH26 | 0790001R | 16C16T1608 | 0 | 0 | RP45 | 0790001R | | 0 | 0 |
| BH414 0790007R RES CHIP PINW 100 OHM 0 0 RP59 A00195R RES CHIP PINW 100 OHM 0 0 RP59 A00195R RES CHIP PINW 100 OHM 0 0 RP59 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 100 OHM 0 0 RP50 079005R RES CHIP PINW 10 | RH38 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RP46 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| MR45 | RH39 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RP47 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 |
| RI44 0790001R 1-6151168 0 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP52 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP55 0790037R RES CHIP PI/MW 17K OHM 0 0 RP56 0790037R RES CHIP PI/MW 17K OHM 0 0 RP56 0790037R RES CHIP PI/MW 17K OHM 0 0 RP56 0790037R RES CHIP PI/MW 17K OHM 0 0 RP56 0790037R RES CHIP PI/MW 17K OHM 0 0 RP56 0790037R RES CHIP PI/MW 17K OHM 0 0 RP52 0790037R RES CHIP PI/MW 17K OHM 0 0 RP52 0790037R RES CHIP PI/MW 17K OHM 0 0 RP52 0790037R RES CHIP PI/MW 17K OHM 0 0 RP52 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 0790037R RES CHIP PI/MW 17K OHM 0 0 RP51 079003 | RH41 | 0790024R | RES.CHIP 1/16W 100 OHM | 0 | 0 | RP49 | AQ01954R | RES.CHIP RK73B3ATTE 5R6J | 0 | 0 |
| RLD 079007R RES.CHIP 176W 10K OHM 0 0 RP52 079007R RES.CHIP 176W 10K OHM 0 0 RP53 079007R RES.CHIP 176W 10K OHM 0 0 RP54 079005R RES.CHIP 176W 10K OHM 0 0 RP55 079007R RES.CHIP 176W 10K OHM 0 0 RP55 079005R RES.CHIP 176W 10K OHM 0 0 RP56 079005R RES.CHIP 176W 10K OHM 0 0 RP56 079005R RES.CHIP 176W 10K OHM 0 0 RP56 079005R RES.CHIP 176W 10K OHM 0 0 RP57 079005R RES.CHIP 176W 10K OHM 0 0 RP58 079005R RES.CHIP 176W 47 OHM 0 0 RP62 079005R RES.CHIP 176W 47 OHM 0 0 RP63 079005R RES.CHIP 176W 47 OHM 0 0 RP64 079005R RES.CHIP 176W 10K OHM 0 0 RP52 079005R RES.CHIP 176W 10K OHM 0 0 RP52 079005R RES.CHIP 176W 10K OHM 0 RP52 | RH43 | 0790051R | | 0 | 0 | RP50 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| RICUS 0790027R RES.CHIP 176W 180 OHM 0 0 RP53 079007R RES.CHIP 176W 100 OHM 0 0 RP56 0790024R RES.CHIP 176W 100 OHM 0 0 RP56 0790024R RES.CHIP 176W 100 OHM 0 0 RP56 0790051R RES.CHIP 176W 100 OHM 0 0 RP52 0790051R RES.CHIP 176W 100 OHM 0 | RH44 | | | 0 | 0 | RP51 | AQ01938R | RES.CHIP RK73B3ATTE 1R5J | 0 | 0 |
| RIO3 | | | | _ | 0 | | | | - | 0 |
| RLO | | | | | | | | | | 0 |
| RES. A003301R RES. CHIP 716W 00 PMM CHIP RESISTOR RECJUMPER-1- | | | | _ | _ | | | | - | 0 |
| RL08 0790001R 16C16T1608 10 0 0 0 0 0 0 0 0 | | | | | | | | | | 0 |
| R10 | RL05 | AQ03361R | | 0 | 0 | RP57 | 0790051R | | 0 | 0 |
| RL11 | RL08 | 0790001R | | 0 | 0 | RP60 | 0790001R | 16C16T1608 | 0 | 0 |
| RL21 AQ03299R RES.CHIP 1716W 470HM O O RP62 O790001R CILIP RESISTOR RECJUMPER-1 O CILIP RESISTOR RESISTOR RECJUMPER-1 O CILIP RESISTOR | RI 11 | A003299R | RES CHIP 1/16W 47OHM | 0 | 0 | RP61 | 0790001R | | 0 | 0 |
| R121 0790019R RES.CHIP 1/16W 47 OHM 0 0 RPG1 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 47 OHM 0 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 47 OHM 0 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 47 OHM 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 47 OHM 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 47 OHM 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1 16C10 170001R RES.CHIP 1/16W 10K OHM 0 0 RPS1 0790024R RES.CHIP 1/16W 10K OHM 0 0 ROD0 0790037R RES.CHIP 1/16W 10K OHM 0 0 ROD0 | | | | | | | | CHIP RESISTOR RECJUMPER-1- | | |
| R122 0790019R RES.CHIP 1/16W 47 OHM 0 0 RPG1 0790001R CHIP RESISTOR RECJUMPER-1 0 0 CHIP RESISTOR RECJUMPER-1 16C16T1608 CHIP RESISTOR R | | | | | | | | CHIP RESISTOR RECJUMPER-1- | | 0 |
| RL23 0790019R RES.CHIP 176W 47 OHM 0 0 0 RPG2 0790001R CHIP RESISTOR RECJUMPER-1- 64 CHIP RESISTOR RECJUMPER-1- 65 CHIP RESISTOR RECJUMPER-1- 66 CHIP 176W 10K 0 HM 0 0 RPS1 0790054R RES.CHIP 176W 10K 0 HM 0 0 RPS1 0790054R RES.CHIP 176W 10K 0 HM 0 0 RPS2 0790054R RES.CHIP 176W | RL21 | 0790019R | RES.CHIP 1/16W 47 OHM | | | RP63 | 0790001R | | 0 | 0 |
| RL23 | RL22 | 0790019R | RES.CHIP 1/16W 47 OHM | 0 | 0 | RPG1 | 0790001R | | 0 | 0 |
| RL25 | RL23 | 0790019R | RES.CHIP 1/16W 47 OHM | 0 | 0 | RPG2 | 0790001R | 16C16T1608 | 0 | 0 |
| RN02 0790037R RES.CHIP 1716W 1.0K OHM 0 0 RPS1 0790001R RES.CHIP 1716W 10M OHM 0 0 RPS1 0790037R RES.CHIP 1716W 10M OHM 0 0 RPS2 0790057R RES.CHIP 1716W 10M OHM 0 0 RPS2 0790057R RES.CHIP 1716W 10M OHM 0 0 RPS2 0790057R RES.CHIP 1716W 10M OHM 0 0 RES.CHIP 1716W 10M OHM | RL25 | AQ03299R | RES.CHIP 1/16W 470HM | 0 | 0 | RPG3 | 0790001R | 16C16T1608 | 0 | 0 |
| RN08 0790034R RES.CHIP 1/16W 10K 0HM 0 0 RPS1 0790024R RES.CHIP 1/16W 10K 0HM 0 0 RPS2 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO22 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO22 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO23 0790034R RES.CHIP 1/16W 10K 0HM 0 0 RO23 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO25 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO25 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO25 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO26 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO26 0790054R RES.CHIP 1/16W 10K 0HM 0 0 RO27 0790054R RES.CHIP 1/16W 10K 0HM | RN02 | 0790039R | RES.CHIP 1/16W 1.5K OHM | 0 | 0 | RPG4 | 0790001R | | 0 | 0 |
| RN08 | | | | | | | | | | 0 |
| RN31 | | | | | | | | | | 0 |
| RNC3 | RN31 | 0790024R | | 0 | 0 | RQ02 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 |
| RNC4 0790046R RES.CHIP 1/16W 4.7K OHM 0 0 RQ06 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ07 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ09 0790018R RES.CHIP 1/16W 10K OHM 0 0 RQ11 0790018R RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 0790018R RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 0790018R RES.CHIP 1/16W 1.0K OHM 0 0 RQ14 0790018R RES.CHIP 1/16W 1.0K OHM 0 0 RQ15 AQ005018R RES.CHIP 1/16W 2.2K OHM 0 0 RQ16 AQ005018R RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ18 0790019R RES. | RN36 | 0790001R | 16C16T1608 | 0 | 0 | RQ03 | 0790038R | RES.CHIP 1/16W 1.2K OHM | 0 | 0 |
| RNC5 0790043R RES.CHIP 1/16W 1.5K OHM 0 0 RO07 0790019R RES.CHIP 1/16W 1.5K OHM 0 0 RO09 0790051R RES.CHIP 1/16W 10K OHM 0 0 RES.CHIP 1/16W 1.0K OHM 0 0 0 RO10 0790051R RES.CHIP 1/16W 10K OHM 0 0 0 RO11 0790061R RES.CHIP 1/16W 10K OHM 0 0 RO11 0790061R RES.CHIP 1/16W 6K OHM 0 0 RO11 0790061R RES.CHIP 1/16W 6K OHM 0 0 RO11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RO11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RO11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RO13 0790001R RES.CHIP 1/16W 1.0K OHM 0 0 RO15 A000501R RES.CHIP 1/16W 1.0K OHM 0 0 RO17 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RO18 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RO31 0790047R RES.CHIP 1/16W 4.7K OHM 0 0 RO31 0790047R RES.CHIP 1/16W 4.7 | RNC3 | | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | RQ05 | 0790019R | RES.CHIP 1/16W 47 OHM | 0 | 0 |
| RNC6 0790039R RES.CHIP 1/16W 1.5K OHM 0 0 RQ09 0790051R RES.CHIP 1/16W 10K OHM 0 0 RQ10 0790001R RES.CHIP 1/16W 1.0K OHM 0 0 RQ11 0790001R RES.CHIP 1/16W 1.0K OHM 0 0 RQ11 0790001R RES.CHIP 1/16W 56K OHM 0 0 RQ11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RQ11 0790018 RES.CHIP 1/16W 56K OHM 0 0 RQ14 0790018 RES.CHIP 1/16W 56K OHM 0 0 RQ14 0790018 RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 0790018 RES.CHIP 1/16W 2.2K OHM 0 0 RQ15 AQ005018 RES.CHIP 1/16W 2.2K OHM 0 0 RQ15 AQ005018 RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ16 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ16 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 47 OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 100 OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 47 OHM 0 0 RQ21 | RNC4 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | RQ06 | 0790019R | RES.CHIP 1/16W 47 OHM | 0 | 0 |
| RNC7 | RNC5 | 0790043R | RES.CHIP 1/16W 2.7K OHM | 0 | 0 | RQ07 | 0790019R | RES.CHIP 1/16W 47 OHM | 0 | 0 |
| RNC8 0790051R RES.CHIP 1/16W 10K OHM 0 0 RQ11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RQ11 0790061R RES.CHIP 1/16W 56K OHM 0 0 RQ13 0790001R 16C16T1608 0 0 RQ14 079001R RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 079001SR RES.CHIP 1/16W 1.0K OHM 0 0 RQ15 AQ00501R CHIP RESISTOR ROHM 0 0 RQ15 AQ00501R CHIP RESISTOR ROHM 0 0 RQ15 AQ00501R RES.CHIP 1/16W 1.0K OHM 0 0 RQ15 AQ00501R RES.CHIP 1/16W 1.0K OHM 0 0 RQ15 AQ00501R RES.CHIP 1/16W 1.0K OHM 0 0 RQ16 AQ00501R RES.CHIP 1/16W 1.0K OHM 0 RQ16 AQ00501R AQ00501R AQ00501R AQ00501R AQ00501R AQ00501R AQ00501R AQ00501R AQ00501R A | RNC6 | 0790039R | RES.CHIP 1/16W 1.5K OHM | 0 | 0 | RQ09 | | | 0 | 0 |
| RNJ1 0790044R RES.CHIP 1/16W 3.3K OHM 0 0 RQ13 0790001R 16C16T1608 RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 0790015R RES.CHIP 1/16W 2.2K OHM 0 0 RQ15 AQ00501R CHIP RESISTOR RECJUMPER-1- RNJ3 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 1.2K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 1.7K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ40 0790069R RES.CHIP 1/16W 270K OHM 0 0 RQ40 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ40 | RNC7 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | RQ10 | 0790001R | 16C16T1608 | 0 | 0 |
| RNJ1 079004R RES.CHIP 1/16W 3.3K OHM 0 0 RQ13 079001R RES.CHIP 1/16W 2.2K OHM 0 0 RQ14 079001FR RES.CHIP 1/16W 2.2K OHM 0 0 RQ15 079001FR RES.CHIP 1/16W 1.0K OHM 0 0 RQ16 079001FR RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 079001FR RES.CHIP 1/16W 47 OHM 0 0 RQ16 079003FR RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 079001FR RES.CHIP 1/16W 47 OHM 0 0 RQ17 079003FR RES.CHIP 1/16W 1.0K OHM 0 0 RQ18 079001FR RES.CHIP 1/16W 47 OHM 0 0 RQ18 079003FR RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046FR RES.CHIP 1/16W 47 OHM 0 0 RQ38 079001FR RES.CHIP 1/16W 47 OHM 0 0 RQ40 0790001FR RES.CHIP 1/16W 47 OHM 0 0 RQ40 079001FR RES.CHIP 1/16W 47 OHM 0 0 0 RQ40 079001FR RES.CHIP 1/16W 47 OHM 0 0 0 RQ40 079001F | RNC8 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 | RQ11 | 0790061R | RES.CHIP 1/16W 56K OHM | 0 | 0 |
| RNJ2 | | | | | | | | CHIP RESISTOR RECJUMPER-1- | | |
| RNJ3 | | | | - | 0 | | | | | 0 |
| RNJ4 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ17 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ18 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790038R RES.CHIP 1/16W 1.2K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 1.0K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 4.7K OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 4.7K OHM 0 0 RQ40 0790018R RES.CHIP 1/16W 4.7K OHM 0 0 RQ40 0790001R 16C1611608 0 0 RQ40 0790001R 16C1 | | | | | | | | | | 0 |
| RNJ5 0790024R RES.CHIP 1/16W 100 OHM 0 0 RQ18 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ16 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790038R RES.CHIP 1/16W 1.2K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 4.7K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ40 0790018R 16C16T1608 0 0 RT01 0790001R 16C16T1608 0 0 RT01 0790001R 16C16T1608 0 0 RT02 0790001R 16C16T1608 0 0 RT02 0790001R 16C16T1608 0 0 RT04 0790001R 16C16T1608 0 0 RT05 0790001R RES.CHIP 1/16W 1.0K OHM 0 0 RT05 0790001R RES.CHIP 1/16W 1.0K OHM 0 0 RT05 0790001R CHIP RESISTOR RECJUMPER-1- | | | | - | _ | | | | _ | 0 |
| RNJ6 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ21 0790038R RES.CHIP 1/16W 1.2K OHM 0 0 RQ31 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 4.7K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 4.7K OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 4.7K OHM 0 0 RQ40 0790018R RES.CHIP 1/16W 1.0K OHM 0 0 RQ40 RES. | | | | | | | | | | 0 |
| RNJ7 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 RQ31 0790046R RES.CHIP 1/16W 4.7K OHM 0 0 RQ38 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ39 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ40 0790019R RES.CHIP 1/16W 47 OHM 0 0 RQ41 0790018R RES.CHIP 1/16W 56K OHM 0 0 RQ41 0790018R RES.CHIP 1/16W 56K OHM CHIP RESISTOR RECJUMPER-1- RNK6 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK8 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK8 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK9 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNL1 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNL1 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNC1 0790001R RES.CHIP 1/16W 1.0K OHM CHIP RESISTOR RECJUMPER-1- RNL1 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNL1 0790001R RES.CHIP 1/16W 1.0K OHM CHIP RESISTOR RECJUMPER-1- RNL1 0790001R CHIP RESISTOR RECJUMPER-1- RNL1 0790001R CHIP RESISTOR RECJUMPER-1- RNL1 0790001R CHIP RESISTOR RECJUMPER-1- | | | | - | | | | | | 0 |
| RNJ8 | | | | | | | | | | 0 |
| RNJ9 | | | | - | | | | | _ | 0 |
| RNK1 0790069R RES.CHIP 1/16W 270K OHM 0 0 RQ40 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ40 0790019R RES.CHIP 1/16W 47 OHM 0 0 0 RQ41 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK6 0790061R RES.CHIP 1/16W 56K OHM CHIP RESISTOR RECJUMPER-1- RNK7 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK8 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK8 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK9 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RRUS 0790001R | | | | | | | | | | 0 |
| RNK2 0790069R RES.CHIP 1/16W 270K OHM 0 0 RQ41 0790001R 16C16T1608 0 0 CHIP RESISTOR RECJUMPER-1-RNK7 0790001R 16C16T1608 0 0 RT02 0790001R 16C16T1608 0 0 CHIP RESISTOR RECJUMPER-1-RNK8 0790001R 16C16T1608 0 0 RT02 0790001R 16C16T1608 0 0 0 RT02 0790001R 16C16T1608 0 0 0 RT02 0790001R 16C16T1608 0 0 0 RT03 0790001R 16C16T1608 0 0 0 RT03 0790001R 16C16T1608 0 0 0 RT04 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 RT05 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 RT05 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 RT05 0790001R 16C16T | | | | - | | | | | | 0 |
| RNK6 0790061R RES.CHIP 1/16W 56K OHM CHIP RESISTOR RECJUMPER-1- 0 0 0 RT01 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT02 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT04 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT04 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT05 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT05 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT05 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT05 0790001R CHIP RESISTOR RECJU | RNKI | 0790069R | RES.CHIP 1/16W 2/UK UHM | 0 | 0 | RQ40 | 0790019R | | 0 | 0 |
| RNK6 0790061R RES.CHIP 1/16W 56K OHM CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT01 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT02 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT04 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 16C16T1608 0 0 RT04 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- 0 0 0 RT05 0790037R RES.CHIP 1/16W 1.0K OHM CHIP RESISTOR RECJUMPER-1- CHIP RESISTOR RECJUMPER-1- 0 0 | RNK2 | 0790069R | RES.CHIP 1/16W 270K OHM | 0 | 0 | RQ41 | 0790001R | | 0 | 0 |
| RNK7 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK8 0 0 RT02 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNK9 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNL1 0 0 RT03 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- RNL1 0 0 RT04 0790001R 16C16T1608 CHIP RESISTOR RECJUMPER-1- CHIP RESISTOR RECJUMPER-1- 0 0 RT05 0790037R RES.CHIP 1/16W 1.0K OHM CHIP RESISTOR RECJUMPER-1- 0 0 | RNK6 | 0790061R | | 0 | 0 | RT01 | 0790001R | 16C16T1608 | 0 | 0 |
| RNK8 0790001R 16C16T1608 0 0 RT03 0790001R 16C16T1608 0 0 0 RT04 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 0 0 RT05 0790001R 16C16T1608 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RNK7 | 0790001R | 16C16T1608 | 0 | 0 | RT02 | 0790001R | 16C16T1608 | 0 | 0 |
| RNK9 0790001R 16C16T1608 0 0 RT04 0790001R 16C16T1608 0 0 0 RT04 0790001R 16C16T1608 0 0 0 RT05 0790001R 16C16T1608 0 0 0 RT05 0790037R RES.CHIP 1/16W 1.0K OHM 0 0 0 0 RT05 0790037R RESISTOR RECJUMPER-1- | RNK8 | 0790001R | 16C16T1608 | 0 | 0 | RT03 | 0790001R | 16C16T1608 | 0 | 0 |
| RNL1 0790001R 16C16T1608 0 0 RT05 0790037R RES.CHIP 1/16W 1.0K OHM 0 CHIP RESISTOR RECJUMPER-1- | RNK9 | 0790001R | 16C16T1608 | 0 | 0 | RT04 | 0790001R | | 0 | 0 |
| | RNL1 | 0790001R | 16C16T1608 | 0 | 0 | RT05 | 0790037R | | 0 | 0 |
| RNLZ 0790001R 16C1611608 0 0 R111 0790001R 16C1611608 0 0 | RNL2 | 0790001R | CHIP RESISTOR RECJUMPER-1- 16C16T1608 | 0 | 0 | RT11 | 0790001R | CHIP RESISTOR RECJUMPER-1- 16C16T1608 | 0 | 0 |

| SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
|--------|----------|--|---------|---------|----------------|--------------------|---|---------|---------|
| | | | L47 | L47 | | | | L47 | L47 |
| RT25 | 0790051R | RES.CHIP 1/16W 10K OHM | 0 | 0 | | | MODULES | | |
| RT38 | 0790001R | CHIP RESISTOR RECJUMPER-1- 16C16T1608 CHIP RESISTOR RECJUMPER-1- | 0 | 0 | | | | | |
| RT39 | 0790001R | 16C16T1608 | 0 | 0 | UT01 | HC00701 | ENGD6305 | 0 | 0 |
| RT40 | 0790052R | RES.CHIP 1/16W 12K OHM | 0 | 0 | | | | | |
| RT41 | 0790052R | RES.CHIP 1/16W 12K OHM CHIP RESISTOR RECJUMPER-1- | 0 | 0 | | | | | |
| RT43 | 0790001R | 16C16T1608 CHIP RESITOR 1/16W 75OHM | 0 | 0 | | | FILTER CHIPS | | |
| RT44 | AQ00164R | TAPE | 0 | 0 | 14704 | 5004/044 | 0.000 = 0.000 = 0.000 | | |
| RT45 | 0790043R | RES.CHIP 1/16W 2.7K OHM | 0 | 0 | XT01 | BG01624U | SAW FILTER(X6875D) | 0 | 0 |
| RT46 | AQ00258R | RES.CHIP 1/16W 270K OHM TAPE | 0 | 0 | XT02 | BN00261 | BGS TRAP MKTGA47M2CAHP00B05 | 0 | 0 |
| RT47 | AQ00247R | RES.CHIP 1/16W 100K OHM TAPE | 0 | 0 | XT06 | BK00321R | CERAMIC FILTER NFL21SP206X1C7D | 0 | 0 |
| RT48 | AQ00229R | RES.CHIP 1/16W 22K OHM TAPE | 0 | 0 | XT07 | BK00321R | CERAMIC FILTER NFL21SP206X1C7D | 0 | 0 |
| RT50 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | XT08 | AZ01102R | NOISE FILTER SGM20F1C104-4A | 0 | 0 |
| RT51 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | XT09 | AZ01102R | NOISE FILTER SGM20F1C104-4A | 0 | 0 |
| RT52 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | XT10 | AZ01102R | NOISE FILTER SGM20F1C104-4A | 0 | 0 |
| RT55 | 0790052R | RES.CHIP 1/16W 12K OHM | 0 | 0 | XT11 | AZ01102R | NOISE FILTER SGM20F1C104-4A | 0 | 0 |
| RT56 | AQ00212R | RES.CHIP 1/16W 4.7K OHM TAPE | 0 | 0 | | | | | |
| RT57 | AQ00244R | RES.CHIP 1/16W 75K OHM TAPE | 0 | 0 | | | | | |
| RT58 | 0790046R | RES.CHIP 1/16W 4.7K OHM | 0 | 0 | FINAL ASS | SEMBLY | | | |
| RT59 | 0790046R | RES.CHIP 1/16W 4.7K OHM CHIP RESISTOR RECJUMPER-1- | 0 | 0 | | | ASSEMBLY PART NUMBER | | |
| RT60 | 0790001R | 16C16T1608 | 0 | 0 | | | | | |
| RT75 | 0790043R | RES.CHIP 1/16W 2.7K OHM | 0 | 0 | | | | | |
| RT83 | 0790052R | RES.CHIP 1/16W 12K OHM | 0 | 0 | | | | | |
| RT84 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | | | | | |
| RT98 | 0790055R | RES.CHIP 1/16W 22K OHM | 0 | 0 | | | | | |
| RY17 | 0790028R | RES.CHIP 1/16W 220 OHM | 0 | 0 | | | SPEAKERS | | |
| RY18 | 0790028R | RES.CHIP 1/16W 220 OHM | 0 | 0 | | | | | |
| RY19 | 0790028R | RES.CHIP 1/16W 220 OHM | 0 | 0 | SPB | GK01671 | SPEAKER 6X12 | 0 | 0 |
| RY20 | 0790028R | RES.CHIP 1/16W 220 OHM | 0 | 0 | | | | | |
| RY21 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE | 0 | 0 | | | | | |
| RY22 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE | 0 | 0 | | | MISCELLANEOUS | | |
| RY23 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE | 0 | 0 | | | | | |
| RY24 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | Α | DD024891K | FLT LC470WU4 | 0 | 0 |
| RY25 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | | | | | |
| RY26 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | | | | | |
| RY27 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | | | | | |
| RY28 | 0790064R | RES.CHIP 1/16W 100K OHM | 0 | 0 | E901 | EP00411 | AC INLET SK-1015(F1-0) | 0 | 0 |
| RY37 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | U1 | HA02471 | POWER UNIT | 0 | 0 |
| RY38 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | | | | | _ |
| RY39 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | | | | | |
| RY40 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | | | CONNECTORS | 0 | 0 |
| RY41 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | | | | 0 | 0 |
| RY42 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | ECN1 | EF25793 | 51P LVDS CABLE L=230MM (FI-R - FI-R) | 0 | 0 |
| RY43 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | ECN2 | EF27352 | 9P PH-502380 CONNE. L=230MM | 0 | 0 |
| RY44 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | EFAC | EF28361 | 2P VT-FASTON (#250) L=170MM CONNE. | 0 | 0 |
| RY45 | 0790037R | RES.CHIP 1/16W 1.0K OHM | 0 | 0 | EFG | EF23841 | CO-01T-F0R0-500-SRT | 0 | 0 |
| RY46 | 0790056R | RES.CHIP 1/16W 27K OHM CHIP RESISTOR RECJUMPER-1- | Ő | Ő | EGND | EF24041 | CO-01T-T0R0-101 | Ő | 0 |
| RY47 | 0790001R | 16C16T1608 CHIP RESISTOR RECJUMPER-1- | 0 | 0 | ELCD2 | EF28681 | 14J KR IDC CONNECTOR | 0 | 0 |
| RY48 | 0790001R | 16C16T1608 | 0 | 0 | ELCD3 | EF28601 | 12J IDC KR CONNECTOR 31P FI-R FFC LVDS CABLE L=250MM | 0 | 0 |
| | | | | | EMH EPM1 | EK01935 EF27362 | UL2896 8P EH-502380 CONNE. L=180MM | 0 | 0 |
| | | SWITCHES | Ī | | EPINIT EPM2 | EF27302 EF27714 | | 0 | 0 |
| | | SWITCHES | Ī | | | | 15P EH-DF3/PAP CONNE. L=550MM | | - |
| | | | Ī | | ERF | EY02262 | PLUG L NIC8014N | 0 | 0 |
| SNC1 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | ESD | EF27431 | 12P 1.0MM PITCH 501330 CONNE. L=240MM | 0 | 0 |
| SNC2 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | ESL | EF27424 | 11P 1.0MM PITCH 501330 CONNE. L=530MM | 0 | 0 |
| SNC3 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | ESP1 | EF28351 | 4P PAP-FASTON (#110/187) L=1,190/590MM CONNE. | 0 | 0 |
| SNC4 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | ESTC | EF27403 | 14P 1.25MM PITCH 502380-GH CONNE. L=350MM | 0 | 0 |
| SNC5 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | | 1 | | | |
| SNC6 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | | 1 | | | |
| SNC7 | FB00021R | CHIP PUSH SWITCH | 0 | 0 | 1 | 1 | | | |

DW3G

PRODUCT SERVICE NOTE: Components marked with a <u>!\</u> have special characteristics important to safety. Before replacing any of these components, carefully read the product safety notice of this service manual. Don't degrade the safety of the receiver through improper servicing.

| SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 | SYMBOL | PART No. | DESCRIPTION | L47S601 | L47V651 |
|--------|----------|---------------------------------------|---------|---------|--------|----------|-------------------------------|---------|---------|
| | | FERRITE CORES | | | | | ACCESORIES | | |
| | | | 0 | 0 | _ | | | | |
| NFAC | GX00732 | MAGNET K5CRC16X28X9-M2G2 ¹ | 0 | 0 | E01△ | EV01841 | POWER CORD 125V10A UL/CSA | 0 | 0 |
| NLTS | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | E203 | FR10162 | DRY BATTERY R6P(AR) E2PT | 0 | 0 |
| NLTSA | GX00731 | MAGNET K5CRC12X15X7-MG2 | 0 | 0 | ESWVL | EW08434 | 8P PLUG CODE L=470MM | 0 | 0 |
| NPM1 | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | N01 | QR72211 | DW3 LCD INST. BOOK | 0 | |
| NPM1A | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | N01 | QR72721 | DW3 LCD V651 INST.BOOK | | 0 |
| NPM2 | GX00734 | MAGNET K5CRC26X30X13-MG2 | 0 | 0 | N02 | QR72431 | DW3 LCD EASY GUIDE | 0 | |
| NPM2A | GX00731 | MAGNET K5CRC12X15X7-MG2 | 0 | 0 | N02 | QR72731 | DW3 LCD V651 EASY GUIDE | | 0 |
| NSD1 | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | N203 | QT44792 | 2007 CANADA WARRANTY CARD | 0 | 0 |
| NSP1 | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | N204 | QT49441 | NATIONAL WARRANTY CARD 2006 | 0 | 0 |
| NSP1A | GX00731 | MAGNET K5CRC12X15X7-MG2 | 0 | 0 | U01 | HL02403 | REMOTE CONTROL UNIT CLU-4373A | 0 | |
| NSP1B | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | U01 | HL02404 | REMOTE CONTROL UNIT CLU-4374A | | 0 |
| NSTC | GX00732 | MAGNET K5CRC16X28X9-M2G2 | 0 | 0 | | | | | |
| | | | | | | | | | |

Part numbers for main boards and assemblies

| MODEL | CHASSIS | MAIN CHASSIS | TERMINAL PWB | MAIN ² DIGITAL PWB | POWER UNIT | LCD PANEL | INVERTERS |
|---------|---------|-----------------|-----------------|-------------------------------------|---------------|--------------|--------------------------------|
| L47S601 | DW3G | n/a | JP55126 | UX30312 | HA02471 | | Not Available Part of Panel |
| L47V651 | DW3G | n/a | JP55126 | UX30313 | HA02471 | DD02491K | Not Available Part of Panel |

NOTES:



- 1. Chassis not available as a part.
- 2. If the Digi-Main PWB is replaced, Make Sure the replacement PWB has the most recent Software Version. For most recent Software Version, see http://www.hitachiserviceusa.com, click on Training and then on Software Version.

For other PWBs not listed in the Table above, see Page 76 through Page 81.

QUICK REFERENCE PARTS LIST IC'S AND UNITS

| No. | SYMBOL | PART No. | DESCRIPTION | PWB ASS'Y | L47V651 | L47S601 |
|-----|--------|----------|---|-----------------|---------|---------|
| 1 | A21 | JP55157 | L47S601 MA-DIG. SERVICE PARTS | Main digital | | 0 |
| 2 | A21 | JP55157 | L47V651 MA-DIG. SERVICE PARTS | Main digital | 0 | |
| 3 | DN01 | CC01871R | LIGHT EMITTING DIODE | LED | 0 | 0 |
| 4 | DN02 | CC01863R | LIGHT EMITTING DIODE (SML012BC4T) | LED | 0 | 0 |
| 5 | DN03 | CC01872R | LIGHT EMITTING DIODE | LED | 0 | 0 |
| 6 | HL01 | CZ01391 | ANALOG MONOLITHIC IC (GP1FSV51TK0F) | | 0 | 0 |
| 7 | HN01 | CZ01371U | INFRARED DETECTING UNIT(GP1UE281RK0VF) | LED | 0 | 0 |
| 8 | HN02 | CZ01261R | IRDA MODULE IC (RPM871-H12) | LED | 0 | 0 |
| 9 | E901 | EP00411 | AC INLET SK-1015(F1-0) | | 0 | 0 |
| 10 | 1001 | CK53531U | R2S11008FP | TERMINAL | 0 | 0 |
| 11 | 1002 | CK37218R | MONO IC TK11150CSCL | TERMINAL | 0 | 0 |
| 12 | 1003 | CK51331R | TK11100CS | TERMINAL | 0 | 0 |
| 13 | IH01 | CK53582R | S-24CS02AFT-TB-G | CONTROL | 0 | 0 |
| 14 | IH04 | CK38329R | DIGITAL MONOLITHIC IC (SN74LVC1G126DCK) | CONTROL | 0 | 0 |
| 15 | IH05 | CK38329R | DIGITAL MONOLITHIC IC (SN74LVC1G126DCK) | CONTROL | 0 | 0 |
| 16 | IL01 | CK50961R | SN74CB3T3306DCUR | | 0 | 0 |
| 17 | IN01 | CK55475R | 1GATE LOGIC IC (TC7SZ14FU) | LED | 0 | 0 |
| 18 | IN02 | CK55511R | 1G LOGIC IC (TC7SG17FU) | LED | 0 | 0 |
| 19 | IP03 | CK52481R | TK73400TCB-G | | 0 | 0 |
| 20 | IP05 | CK55331R | TX86287AM1 | | 0 | 0 |
| 21 | IQ01 | CK53741R | TC7MBL3245AFK | SD-CARD | 0 | 0 |
| 22 | IQ02 | CK37216R | MONO IC TK11133CSCL | SD-CARD | 0 | 0 |
| 23 | IQ03 | CK55511R | 1G LOGIC IC (TC7SG17FU) | SD-CARD | 0 | 0 |
| 24 | IT03 | CK53612R | TC7PA53FU | | 0 | 0 |
| 25 | IT05 | CK37218R | MONO IC TK11150CSCL | | 0 | 0 |
| 26 | IT06 | CK37605R | IC TK11250CM | | 0 | 0 |
| 27 | IT07 | CK37605R | IC TK11250CM | | 0 | 0 |
| 28 | IT09 | CK51152R | UPC3231GV | | 0 | 0 |
| 29 | IT10 | CK51141R | UPC3220GR | | 0 | 0 |
| 30 | IY03 | CK50027R | DIGITAL MONOLITHIC IC (MAX202I | | 0 | 0 |
| 31 | JH01 | EA02291U | HDMI RECEPTACLE DC1R019HBA | | 0 | 0 |
| 32 | JQ01 | EY01772R | SD MEMORY CARD 500998-0900 | SD-CARD | 0 | 0 |
| 33 | U1 | HA02471 | POWER UNIT | | 0 | 0 |
| 34 | UT01 | HC00701 | ENGD6305 | | 0 | 0 |
| | | | *** | | | |
| | | | | | | |
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